

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

SEPTEMBER 15, 1961

Serial Dept.

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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

VOL. CXIV, NO. 6

SEPTEMBER 15, 1961

Founded 1904

With which was merged 1939
THE NATIONAL NURSERYMAN
Established 1893



Published on the
first and fifteenth
of each month by the
AMERICAN NURSERYMAN
PUBLISHING COMPANY
343 South Dearborn Street,
Chicago 4, Illinois
Telephone: WAbash 2-9011
Area Code 312



Subscription Price:
\$5.00 per year;
Outside U. S. A., \$6.00;
Single copies 35c.
Second-class postage
paid at Chicago, Ill.



Advertising Rates
On Application.
For Closing Dates
See Next Page.



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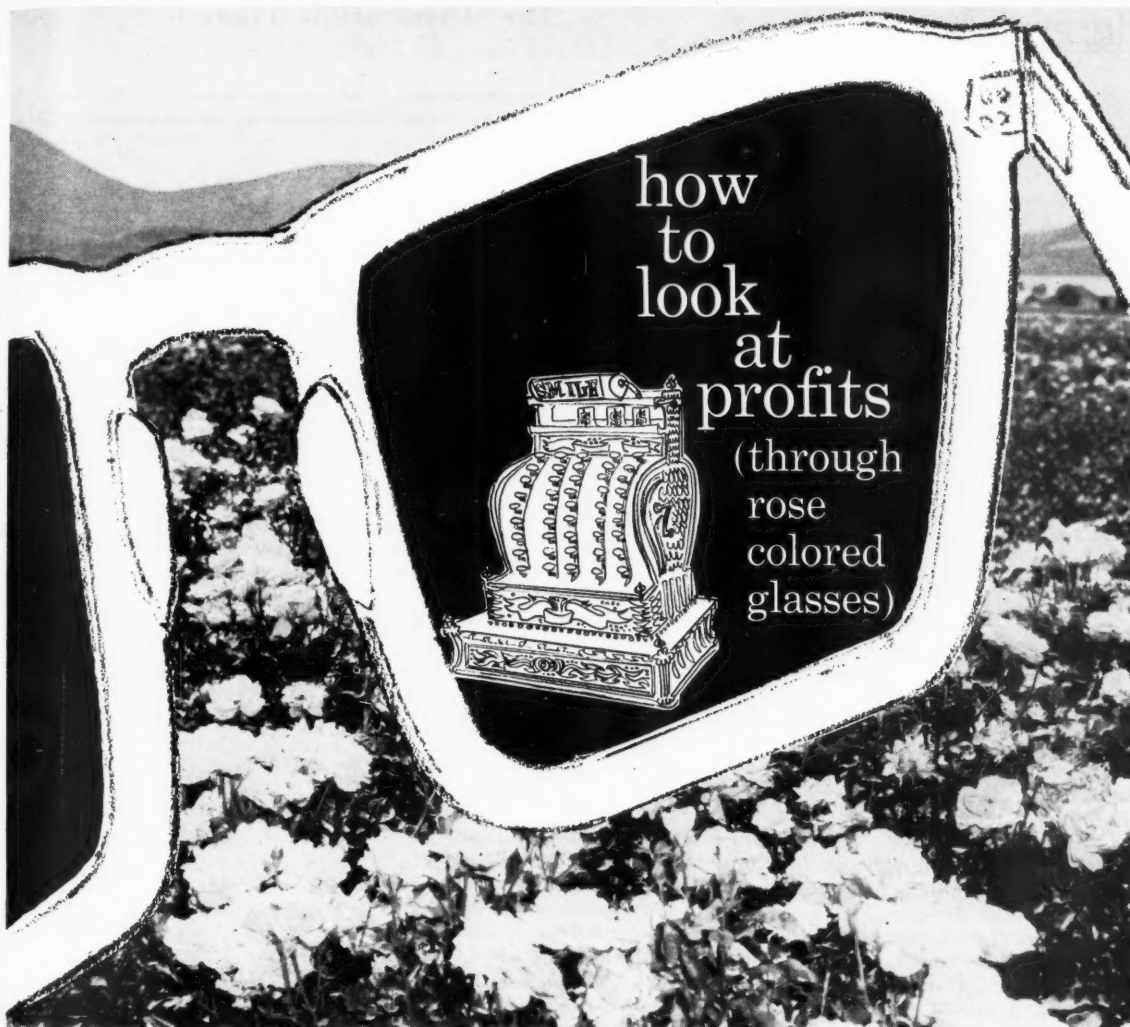
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Forms for the October 15 issue will close Friday, September 22

Forms for the November 1 issue will close Friday, October 13. Mail copy to arrive at Chicago by these dates—no later.

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Editorial

DEFINITELY UP

Recent announcement from the nation's capital is that recovery from last year's recession has been faster and farther than had been anticipated by this date. This followed earlier report that industry had hit a new high in producing national gross product above the previous record. Still more striking, national personal income has risen higher than formerly, in spite of a hard core of unemployment, now ascribed largely to the unskilled, untrained and mostly uneducated victims of the machine age and automation.

The sales outlook is much more favorable at the beginning of autumn than it was in early spring. Consequently, it would seem the part of wisdom for retail nurserymen and garden shop operators to emphasize, more than ever before, the advantages and benefits of purchase and planting such stock as may be counted on to succeed, if planted in autumn, as well as in spring.

The selling job is a little harder at this time of year than when nature advertises the return of gardening weather in spring, because most of the public then feels the urge to garden more. Parenthetically, a good many nurserymen feel the stimulus most early in the year, also, and have been slow to push possible autumn sales. But those retailers who have sought to build autumn sales have found not only that it is profitable, because there is less rush and no extra help is required, but it definitely helps in producing better profits in spring by reducing the hurry, worry and extra help at that time.

Newspaper advertisements show that retailers in other lines are seeking to make up for reductions in business volume early in the year by extra stimulus to public buying now. The public has the money, business is definitely up and it is the job of

The Mirror of the Trade

sellers to attract the dollars in their direction, instead of letting them go past to savings bonds and investments.

INHIBIT PLANT VIRUSES

Accustomed to the use of chemical sprays to prevent the spread of black spot and similar fungous diseases, rather than to cure, the nurserymen will readily understand the use of a surfactant—commonly termed a sticker, spreader or wetting agent—to prevent the introduction of virus diseases into plants by insects, which are a major factor in their spread.

In their search for surfactants to combine with antibiotics in the experimental control of virus diseases, research scientists of the United States Department of Agriculture discovered the effectiveness of one compound in arresting virus development. It is dioctyl sodium sulfosuccinate, which is called Doss for short in the department's research announcement.

Compounds such as Doss are used to reduce the surface tension of liquids and consequently are commonly added to agricultural sprays to improve their contact with plant surfaces or to facilitate penetration. The research workers found that application of Doss alone to plant leaves 15 minutes, and in some cases up to 30 hours, after inoculation with viruses effectively inhibited disease development. So far the experiments have been with various bean plants, and with mosaic viruses.

What part the new compound may play in arresting viruses in plants has yet to be determined, but since the effects of virus diseases are becoming better known and their wide range is recognized, the prospect is full of interest.

WINTERING CONTAINERS

The increasing number of species of plants being grown in containers warrants special attention to their handling as winter approaches, and plans should be made to reduce losses from exposure or dryness.

Those growers experienced with both know that there is a considerable difference between balled and burlaped plants and those in containers in their ability to withstand cold weather and dry spells in winter.

The excessive drying of the soil of container-grown plants in winter

necessitates provision for watering them in the occasional dry spells of the period. Shade over the tops of the plants is better protection than a windbreak on the side of them. Hence the usefulness of heavy lath shades over container plants.

The nurserymen who seek to carry container-grown plants over winter should give close study to their handling in point of feeding, watering and shelter, especially.

VISUAL CONTACTS

Landscape nurserymen report that there are many ways of making contacts in order to develop sales. Leads may be gained by contact with landscape architects, with home developers, with new industrial buildings in suburbs and others. Some extremely competent salesmen rely on their visual contact; when they see a property they think should be planted, they approach the owner in one way or another.

Some retail nursery firms and garden shop operators have put the same plan to work. While they do not call on such prospects, if they see new homes not yet planted or old ones whose plantings need renovation, they put them on a special mailing list. By other visual contacts, this list is enlarged, so that an occasional mailing piece about service, merchandise or special offers is found profitable.

"KID-PROOF" NURSERY

New reason for a government nursery is to grow "kid-proof" plants, according to a California newspaper, which recently told about operations of the nursery conducted by the Los Angeles city housing authority. This contains 16,000 plants, it is reported, consisting of 40 to 50 varieties of trees and shrubs. The explanation for it is that "baby" plants and seedlings are bought from wholesale nurseries and then "grown to resist the torture and abuse of playing children" before being planted in the 21 housing projects located throughout the city.

The supervisor is quoted as saying that 10,000 plants are needed yearly to replace dead plants or fill holes which once contained plants or trees. No original planting is being done. The conclusion is that the original plantings, however done, were not long-lived, maybe because of the tortures of playing children.

Texas Convention Staged at Galveston

New Sales Tax and Other Legislative Matters Discussed at Meeting

By Joan Kilner Mills

The informal and leisurely atmosphere of the Gulf beach resort, at Galveston, Tex., pervaded the 24th annual convention of the Texas Association of Nurserymen, which was held there August 20 to 23. There were a minimum of business sessions and maximum of entertainment events, with plenty of time also set aside for visiting, swimming, sunning or otherwise relaxing. About 600 persons attended, including a large number of Junior TANNers and Teen TANNers, for whom special activities and entertainment were provided.

Large Trade Fair

Conventioners were lodged at the Galvez and Buccaneer hotels overlooking the Gulf beach, while meetings and the larger entertainment events were held on the second floor of Moody convention center, located immediately between the two hotels. The first floor of the center was given over entirely to the T. A. N.'s annual nursery and garden supply show. All 150 booths were taken by nurseries, manufacturers and distributors to display and sell their wares. As usual, ample time was allocated for visiting the trade fair, which has become one of the main features of this group's annual conventions.

At the banquet, August 23, the Arp award for meritorious service to the nursery industry of Texas during the past year was presented to Jack Jones, Southwest Landscape Co., Dallas. It is a large silver bowl

on which the recipient's name is engraved and it is his to keep for a year until it is passed on to the next recipient. Presentation was made by L. C. House, House's Azalea & Camellia Gardens, Dallas, who then received a small replica of the award for a permanent possession.

The exhibitors' bonus, a 1961 Chevrolet station wagon, was also won by Jack Jones.

New Officers

At the general session Wednesday morning, August 23, the agenda was confined to introduction of officers from the six regional chapters, election of officers for 1961-62 for the state association and selection of the 1963 convention site.

New president of the T. A. N. is James H. Walker, Walker Nursery & Garden Center, Midland. Chosen to serve with him were Sterling Cornelius, Cornelius Nurseries, Houston, as first vice-president and treasurer, and George Pletcher, Pletcher's Wholesale Nursery, Harlingen, as second vice-president.

The board of directors elected is composed of John Vaught, Vaught Nursery, Austin, for region 1; Erwin Richker, Rice Nursery, Houston, region 2; Carroll Wilson, C. E. Wilson Nurseries, Jacksonville, region 3; L. C. House, House's Azalea & Camellia Gardens, Dallas, region 4; R. T. McDuff, Pope Nursery, Fort Worth, region 5, and C. H. (Scott) Mosty, Mosty Bros. Nurseries, Center Point, region 6. The retiring president, L. J. Hilscher, Hilscher



Presentation being made of the Arp award by L. C. House, left, to Jack Jones at the recent annual convention of the Texas Association of Nurserymen.

Nursery & Garden Center, Fort Worth remains on the board as director at large.

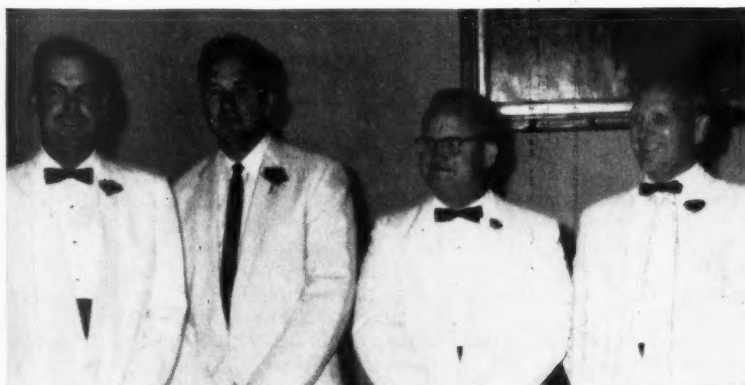
San Antonio was selected at last year's meeting to be the convention site for 1962. Invitations were heard from Houston, Austin and Fort Worth for the 1963 convention, and Fort Worth was chosen as the site for that year.

Discuss New Texas Sales Tax

The first general session Monday afternoon, August 21, was primarily devoted to discussion of the new retail sales tax passed in August by the Texas legislature. First, however, the group heard a report by the president, L. J. Hilscher, Hilscher Nursery & Garden Center, on his travels the past year on behalf of the association.

Next was a report by the executive secretary, B. R. Fullingim, Austin, who stated that increasing the membership further was a prime problem. He announced that, since state insurance laws had recently been changed by the legislature, life insurance at group rates was now available to T. A. N. members. He also told of the new association emblem card that may be leased by members for the duration of their memberships.

After long argument, a 2 per cent retail sales tax was passed by the Texas legislature and went into effect. [Continued on page 71]



Officers of the Texas Association of Nurserymen elected at the group's Galveston convention last month: Left to right, James Walker, president; Sterling Cornelius, first vice-president; George Pletcher, second vice-president, and L. J. Hilscher, retiring president.

Shade Tree Conference at Minneapolis

Change Name to International Shade Tree Conference and Elect Officers

By Noel B. Wysong

The National Shade Tree Conference met for its annual and what proved to be its final convention under this name, August 20 to 25, at Minneapolis, Minn., with headquarters in the Leamington hotel.

During the business session, the official name of the organization was changed. Henceforth it will be known as the International Shade Tree Conference. The name change was made in recognition of the fact that over the years the conference has become truly international in scope, with membership not only in the United States and Canada, but in a number of countries on other continents as well.

The objectives and purposes of the organization remain as they were. These include efforts to improve the practice of tree preservation, to stimulate greater interest in the planting and care of shade and ornamental trees, to initiate and foster scientific investigations into various problems encountered in the practice of tree preservation and to disseminate information gained through such investigations, to co-operate in the conservation of trees and in the beautification of the countryside, to sponsor an annual meeting devoted to the exchange and presentation of information on shade tree problems and to provide an opportunity for manufacturers of arboricultural supplies and equipment to display their products.

Election

At the business session the following officers were elected: President, Hackett C. Wilson, Wilson Tree Co., Shelby, N. C.; vice-president, Maunsell Van Rensselaer, Saratoga Horticultural Foundation, Saratoga, Calif.; secretary-treasurer, L. C. Chadwick, Ohio State University, Columbus, O., and editor, Paul E. Tilford, Wooster, O.

Elected to the executive committee for 3-year terms as representatives of regions 2, 4 and 6, respectively, were Carl J. Schiff, of the department of parks, New York, N. Y.; John Michalko, of the division of shade trees, Cleveland, O., and C. Elmer Lee, Southern California Edison Co., Ltd., Los Angeles, Calif. Elected to the membership committee for 3-year terms in regions 2, 5 and 7, respectively, were Herbert L.

Bowman, Cleona, Pa.; Leonard Hammerstone, Crystal Lake, Ill., and C. G. Dobbin, Toronto, Ont., Canada.

Varied Groups Represented

The 6-day convention at Minneapolis was attended by 620 registered members and guests representing tree-service companies, educational institutions, city forestry and park organizations, nurseries and plant research agencies. Most of the states in this country and the provinces in Canada were well represented in the attendance; one delegate came from Puerto Rico.

In papers presented on the educational program, which will be covered in a detailed report in a later issue of the American Nurseryman, numerous topics were discussed, including the effects of soil conditions, insects, diseases, selection of desirable tree species, planting, utility company tree programs and operational management. Excellent displays and demonstrations by more than 30 manufacturers of supplies and equipment used in arboriculture added greatly to the success of the meeting.

Social activities included a hospitality party; an outdoor smorgasbord, with entertainment by Scandinavian dancers during the noon hour of the field demonstration of equipment; the annual banquet, with entertainment and dancing, and a 3-

hour boat trip on Lake Minnetonka. In addition, the ladies were given conducted tours of various places of interest at Minneapolis.

New Film Shown

An event that attracted a standing-room-only crowd was the premiere showing of the film "Trees and Their Care," produced by John Ott Pictures, Inc., Lake Bluff, Ill., for the National Shade Tree Conference. Two showings of the film were made; the first was for members only, and the second was open to the public. The 16-mm. film, in color with sound track, depicts the various phases of shade tree maintenance. It is intended for television and group meeting use to stimulate greater public interest in the planting and scientific care of shade and ornamental trees. Presently its distribution is being handled by Dr. L. C. Chadwick, department of horticulture, Ohio State University, Columbus 10, O., and F. Earle Martin, Cedarvale Tree Experts, Ltd., 1480 St. Clair avenue west, Toronto, Ont., Canada.

The next meeting of the conference will be held in early August, 1962, at San Francisco, Calif.

PLANTINGS are being made at the new Midwest Nursery, Webb City, Mo., of shade, ornamental and nut trees by owner H. M. Landes.

National Arborists Elect

By Noel Wysong

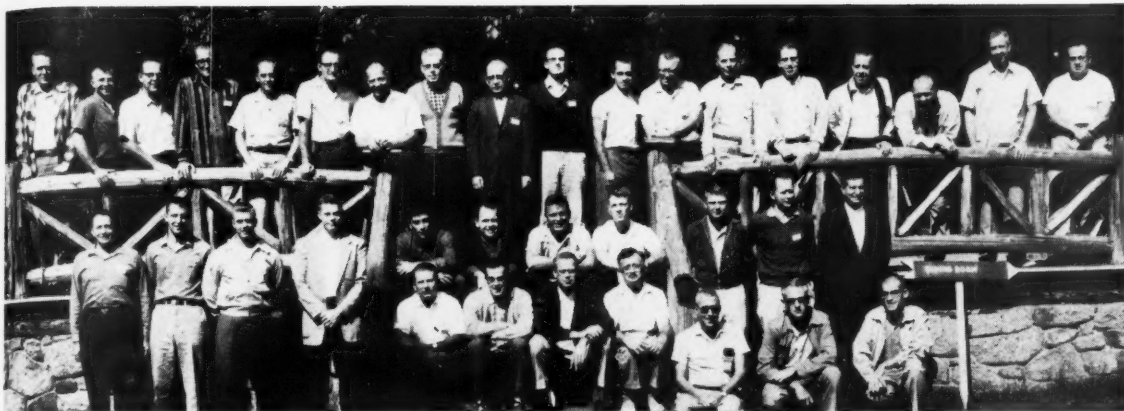
The annual business meeting of the National Arborist Association held August 22 at the Leamington hotel, Minneapolis, Minn., featured the election of new officers and discussions of various problems relative to the tree care industry. When President Freeman L. Parr, Parr & Hanson, Inc., Hicksville, N. Y., called the meeting to order, approximately 130 members and guests were present.

Elected to office for the coming year were the following: President, George T. Lewis, Lewis Tree Surgeons Co., Media, Pa.; first vice-president, F. L. Dinsmore, Dinsmore Tree Service, St. Louis, Mo.; second

vice-president, John Z. Duling, Duling Tree Expert Co., Muncie, Ind.; secretary, Winston E. Parker, Certified Tree Expert, Moorestown, N. J., and treasurer, Edwin E. Irish, Charles F. Irish Co., Inc., Detroit, Mich.

John C. Phillips, Sohner Tree Service, Inc., San Anselmo, Calif., was elected to the board of directors. Holdover directors are Harry A. Morrison, arborist, Wilmette, Ill., and Kenneth P. Soergel, Soergel Tree Service, Gibsonia, Pa.

The next meeting of the National Arborist Association will be held sometime during the later part of January, 1962.



Nurserymen who were participants in the fourth management conference sponsored by the American Association of Nurserymen and Syracuse University, held recently at the Sagamore conference center of the university in the Adirondack mountains of New York.

A. A. N. Management Conferences

New Courses Added on Small Business Management and Sales Training

SAGAMORE CONFERENCE

The fourth management training program sponsored by the American Association of Nurserymen at the Sagamore conference center of Syracuse University, Syracuse, N. Y., was held August 13 to 18. This year 31 nurserymen, representing 16 states, participated. Enjoying the clear, sunny weather, which included temperatures near freezing on two mornings, were nurserymen from Alabama, Connecticut, Illinois, Indiana, Iowa, Maryland, Michigan, Minnesota, Mississippi, Missouri, Nebraska, New Jersey, New York, Ohio, Pennsylvania and Texas. A. A. N. legislative assistant, Robert Lederer, also attended from Washington, D. C.

The Sagamore nurserymen's conference program this year, as in pre-

vious years, consisted of courses in accounting, finance, personnel and marketing. In addition, a new course in sales training was conducted by Prof. Carroll A. Nolan, professor of business education and marketing at Syracuse University and chairman of the department of business education, New York University.

The new course was planned to help nurserymen to develop or improve nursery employee sales-training programs. Professor Nolan claims that, in spite of excellent training programs, the majority of firms just do not develop the best techniques in applying psychological principles in selling. Developing this premise on a practical level, Professor Nolan caused nurserymen attending the Sagamore conference to feel that this addition to the program is valuable.

ARROWHEAD CONFERENCE

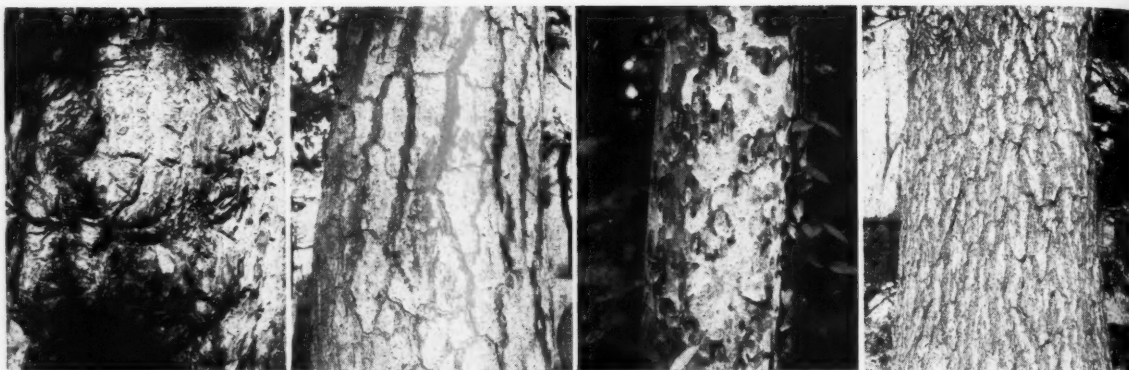
The second annual management training program sponsored by the American Association of Nurserymen at the Lake Arrowhead conference center of the University of California, Los Angeles, Calif., was held August 13 to 18. This year there were only 17 participants; however, they represented a wide geographical distribution. Six of the class were from nursery firms in California; two each from Oregon, Washington and Texas, and one each from Colorado, Michigan, Missouri and Illinois. A. A. N. Secretary Curtis Porterfield also attended from Washington, D. C.

The program consisted of lecture sessions beginning at 8:30 o'clock each morning and lasting until noon,

[Continued on page 24]



Conferees who attended the second management conference sponsored by the American Association of Nurserymen and the University of California, held at the university's Lake Arrowhead conference center, in California.



A.

B.

C.

D.

Illustration A—Strange faces and figures often appear in the bark, as in this Austrian pine; illustration B—The coarse plated bark of the pitch pine is truly attractive; illustration C—The mottled bark of the lacebark pine is one of the most interesting among the pines; illustration D—White pine bark is often of contrasting light and dark areas.

Tips for Better Landscapes

Interesting Patterns in Tree Barks

By Clarence E. Lewis

Department of Horticulture, Michigan State University, East Lansing, Mich.

PART I

There are many interesting things to be seen in tree trunks, but everyone is not impressed in the same way. This is good.

For instance, in studying the bark of four different pines one can find four different pictures: The gnarled trunk of the old Austrian pine (*Pinus nigra*) suggests the battered face of an Oriental image in illustration A, in the lower left area. This effect was unconsciously achieved by pruning and not making the cuts flush with the main trunk. In the healing process the curled, almost animalis-

tic result causes many passers-by to take a second look. The trunk diameter of this well-established Austrian pine is 37 inches.

The extremely coarse bark of the pitch pine (*Pinus rigida*) in illustration B has an interesting pattern. The large, irregular sections of bark are not too different from what is shown in two or three other species, but there is always a certain ruggedness evident in the main trunk of an old pitch pine.

To make such a bark even more attractive, tufts of needles often appear here and there on the main

trunk, in the crotches of some of the larger limbs and, of course, closely appressed to many of the smaller limbs. It is a tree difficult to transplant.

Lacebark Pine

The camouflaged bark of the 3-needled lacebark pine (*Pinus bungeana*) is entirely different from that of the other pines. As shown in illustration C, the bark appears as loose curled or curved sections in varying sizes. These sections soon drop. The color that first appears on young trees is a contrasting lighter green, and as the main stems increase



E.



F.



G.

Illustration E—Canadian hemlock has a rugged bark of curved ridges; illustration F—*Tsuga canadensis* often develops with two or more main trunks; illustration G—Strange animalistic stems may appear from the base of the Canadian hemlock.

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H.

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K.

Illustration H—True Chinese elm has a definite curling, loose bark on young stems; illustration I—Old trunks of *Ulmus parvifolia* are of different colors and tones; illustration J—The main trunks of *Ulmus pumila* (not Chinese, but Siberian elm), has a coarse and grooved bark; illustration K—Siberian elm (often incorrectly called Chinese elm) has a coarse bark on young stems.

in size, chalky whites, gray greens and real greens make one of the most attractive pine trunks.

Usually the lacebark pine develops with more than one main stem, with a rounded head, forming a desirable addition to a landscape. Unfortunately, all this does not happen in five or six years, and the tree may be as many as 25 years old before the multiple-stemmed umbrella-like crown is large enough to cast usable shade.

The eastern white pine, usually referred to as just white pine (*Pinus strobus*), has a bark not too different from some of the other pines. As shown in illustration D, sections of the main trunk sometimes look as though they had been slightly planed or smoothed, so that light and dark areas are quite noticeable. This all disappears as the tree grows older; then the grooves become deeper, and

the whole appearance of the bark is coarser.

Hemlock Bark Variations

There are many different trunk and bark appearances on the Canadian hemlock (*Tsuga canadensis*) as one studies these trees on slopes, in ravines and in other places. The rugged bark shown in illustration E indicates how the long ridges curve and break to provide an interest for those who take time to look.

Sometimes the main stems are two in number (see illustration F), or they may develop with queer and unusual branches like long elephant trunks, as shown in illustration G. Illustrations E, F and G are of hemlocks that are nearing an age of 100 years.

In most cases the ridges of the Canadian hemlock will be found narrower than the rounded ones of

the Carolina hemlock (*Tsuga caroliniana*). The bark color of the more northern species varies from cinnamon red to dark gray, sometimes showing a slight purple tinge. The Carolina species is similar in many ways, but runs more on the red side. It is difficult to give an exact color description of these.

The bark pictures of the Chinese elm (*Ulmus parvifolia*) and the dwarf Asiatic or Siberian elm (*Ulmus pumila*) show the distinct differences between these two species that are often misrepresented in the trade. Illustration H indicates what happens to the bark of the young branches of the real Chinese elm. The bark peels off to leave an interesting branch, while the young branches of *Ulmus pumila* have a tight but coarse bark, as can be observed in illustration K.

As the tree matures, the trunk of
[Continued on page 32]



L.



M.



N.

Illustration L—Even the younger branches of Amur cork tree are corky; illustration M—The main trunk of Amur cork tree is spongy and really corklike to the touch; illustration N—American redbud has the interesting ability to produce flowers from the larger stems and main trunk.

Varied Topics Round Out Propagators' Meeting

By Fred C. Galle

Addresses on propagation techniques and equipment, a discussion of the viburnums and a weed control panel were among events programmed during the closing sessions of the 10th annual convention of the Plant Propagators Society, initial reports of which appeared in earlier issues of the American Nurseryman.

A progress report on "Research on Root Initiation" was given by Dr. Charles E. Hess, department of horticulture, Purdue University, Lafayette, Ind. Starting his discussion with slides, Dr. Hess reported on his testing for cofactors in the rooting of plants. He is working with hibiscus, the red variety, which is easy to root; the white-flowering variety, which is difficult to root, and an intermediate type, which is also intermediate in its rooting ability. Cofactors showed that the rooting material is soluble in water, ethonol and methanol and insoluble in chloroform and ether; it is also thermostable and nondialytic.

Among slides on mature and juvenile forms of ivy was one view showing the induction of juvenility and the reversal to the mature state; grafts of mature ivy on juvenile plants first put out juvenile foliage and then set flowers and mature foliage. Charts were shown explaining the mung bean bio-assay test for factors which promote root initiation. Dr. Hess believes that there is a correlation between rooting ability and the cofactors within a plant. Equipment being used for various tests and analyses was shown. In closing, Dr. Hess stated that some chemical analysis on chloromone showed that the principal ingredient in this rooting material is naphthalene acetic acid.

Propagating Techniques

At the afternoon discussion, the moderator was Hugh Steavenson, Forrest Keeling Nursery, Elsberry, Mo., for a "Symposium on Propagation Techniques." Constant DeGroot, Oakville, Ont., Canada, reported on "Winter Grafting of Juniperus Varieties on Unrooted Cuttings." Mr. DeGroot is using this method mainly with Juniperus virginiana varieties. Grafts are made in the usual way, using scions that

are smaller than the understock, and the grafts are placed in sand, spaced 2x2 inches apart. Grafts are covered in the bed with polyethylene. Mr. DeGroot stated that the understock employed is much easier to root than the Hetz juniper.

"Propagation of Ginkgo Biloba by Cuttings" was reported by John Vermeulen, John Vermeulen & Son, Inc., Neshanic Station, N. J. He stressed the importance of selecting male ginkgo plants, as the offensive seed of the female plant limits its use. One should select a good type of tree. July is the time to take softwood cuttings, which can be left in the bench until spring for best re-

sults. The use of Hormodin No. 3 was recommended; with some types the rooting is slow.

Cable-Heated Frames

Richard Van Heiningen, Van Heiningen Nurseries, Deep River, Conn., described "Winter Propagation in Outside Frames with Electric Cables." His first experience with electric cables outdoors was highly successful with taxus. Thorough fumigation of frames, using formaldehyde or diathane, is desirable. Many varieties of plants can be rooted by the method. For Sargent hemlock a plastic case is placed inside the sash-covered frames. Arborvitae and spruce are also rooted in the case. Azaleas do not require bottom heat in the frames. The case has limited use for rhododendrons; rhododendron cuttings should be put in, in October, and an additional frame of plastic placed around the case. He recommended using the easier-rooted varieties of Ilex opaca and crenata, which are also rooted in the outdoor frames heated by electric cables.

The frames are constructed of cinder blocks and have a sand rooting medium placed eight inches below the ground level. He stressed the importance of good drainage. The temperature of the cables is held at 70 degrees. Frames are covered with glass sash, and some of the sash is sealed with plastic. There is low maintenance cost with these frames, and it is easy to harden off cuttings in them. The disadvantages are the difficulty of inspecting the cuttings during snowy periods and the high cost of heat. He concluded his talk with a series of slides showing his coldframes and his use of them.

Thor K. Bergh, woodland conservationist, St. Cloud, Minn., talked on the subject "Will Seeds from Northern Plants Produce Hardier Plants than Those Collected from Plants in Southern Regions?" Mr. Bergh stated that this is a controversial subject, but an important one in conservation work. Mr. Bergh stated that in Germany one can obtain certified seeds, free of insects and disease. Their origin and viability are also listed. The United States conservation service has a policy that seeds should be of known origin, with year of crop noted, also. Seeds are obtained from natural stands within 100 miles of the area where the trees to be grown will be used and within 1,000 feet of the elevation of the area of use.

Climate, soil and site factors have
[Continued on page 56]

FERRY-MORSE FAIR



This year's flower fair of the Ferry-Morse Seed Co., presented at the firm's San Juan Bautista, Calif., growing fields last month, proved an attraction for more than 350 garden writers, editors, nurserymen and seedsmen. The event offered visitors opportunity to observe 1,800 trial plantings of annuals. One of the All-America Selections trial gardens located at this research and production center formed part of the 12 acres of fair displays, along with an herb garden. Old Mexico zinnia, Dark Opal basil, Bravo dianthus and Red Man zinnia, all 1962 A. A. S. winners, were planted together for convenient viewing. An aerial crop-dusting demonstration and a tour of the firm's 1,000-acre establishment were part of the fair program.

Shown above are Los Angeles area visitors to the event: William Evans, Evans & Reeves Landscaping, Inc., at left and James Perry, Perry's Plants, Inc.

Nursery Hosts Summer Meeting Of Iowa Group

By Charles Kincaid



Left to right, M. R. Cashman and C. C. Smith, Sherman Nursery Co. hosts, and Dwight Hughes, Cedar Rapids Nursery Co., Cedar Rapids, president of the Iowa Nurserymen's Association, in the packing cellar snack bar enjoyed at the Iowans' summer meeting.

Meeting at the Sherman Nursery Co., Charles City, Ia., the Iowa Nurserymen's Association held its annual summer session August 24 and 25. The program opened Thursday, August 24, when participating nurserymen registered and toured the nursery's fields, packing cellar, greenhouses, gift shop and container-growing department.

In a corner of the firm's 45,000 square foot underground packing cellar, the Sherman nursery hosts had created a flower garden around a water fountain. This garden and a display of evergreens, with tables and chairs, provided a cool outdoor cafe setting where the conventioners could relax and enjoy refreshments.

The cellar, considered the largest in the industry, was built in the early 1900's, said Mr. Cashman, chairman

of the board of the firm. Two years ago a pre-stressed concrete roof with styrofoam insulation was put on. The 1½-foot walls represent over 900,000 cubic feet.

Ten cars driven by Sherman employees carried the visitors through the 714 acres of nursery stock Thursday afternoon and Friday morning. Nurserymen saw that the fields were almost completely free of weeds, and with an ideal summer growing season, the stock appeared in good condition. The nursery uses 15 tractors, with special cultivator attachments, several of which were on display in the packing cellar.

Alpine Currant Specialty

Of special interest to many of the visitors was Sherman's strain of Alpine currant. The plants, which were

brought in nearly 40 years ago from the Arnold Arboretum, Jamaica Plain, Mass., are bushy and heavy, making them ideal for specimen shrub or hedge plants.

This nursery grows a complete line of hardy stock, including shade trees, flowering shrubs, evergreens, vines, phlox, peonies, fruit trees and perennials, stated C. C. Smith, president.

Friday, at 9 a.m., the board of directors of the I. N. A. met and made tentative plans for the annual winter meeting to be held at Des Moines, January 11 to 13, 1962. The directors also discussed the work that the Missouri nurserymen are doing with the electric power companies, said Victor Foster, secretary-treasurer.

A cocktail party and dinner were [Concluded on page 38]



Honored guest and officials of the Ohio Nurserymen's Association at the group's recent summer meeting: Left to right, V. W. Flickinger, chief, Ohio division of parks; Dave Dugan, Dugan Nurseries, Perry, O., president, O. N. A., and H. C. Horton, Horton Nurseries, Inc., Painesville, O., vice-president, O. N. A.

Summer Outing in Ohio

By Kenneth Reisch, Sec'y.

Excellent weather favored the 170 members and family guests of the Ohio Nurserymen's Association who enjoyed a meeting at beautiful Lake Hope state park, Zaleski, O., August 15 to 17. Located in the heart of the Zaleski state forest, Lake Hope provided a place for relaxation, tours and programs on the natural history of the area.

The first evening included a program "The Lake Hope Story," presented by Bill Price, chief naturalist, following which, an affiliate membership in the association was presented to V. W. Flickinger, chief of the Ohio division of parks. Mr. Flickinger was honored for his interest in the nursery industry and his work in

developing an outstanding system of beautiful parks and recreation areas in Ohio.

A business session included discussion on legislative activities affecting the nursery business. Of prime interest was a bill which will enable agricultural producers to extend payments for sewer and water assessments over a longer period, thus reducing the amount of annual payments.

Activities on the second day included tours, hikes, swimming and boating, and the meeting was concluded with a trip to Hocking state park, where the registrants enjoyed a picnic lunch and a walk to some of the outstanding scenic areas.



CHARLIE CHESTNUT

IT PAYS TO INVESTIGATE



It dont seem to me that I ever wrote it up for the members about the time that Emil traded for the cemetery lots, so I will tell the story as I remember it. It must have been eight or 10 years back, one day in early spring.

Emil was sitting at his desk reading a letter. His glasses were slid down on the end of his nose and his hunting cap was pushed way on the back of his head. I could tell he was working on some problem, as that is the way he always looks when he is concentrating. He moves his lips a little, not too much, but just here and there over a big word.

I stood there by his desk a minute or two, but he didnt say a word. Finally I asked him, "What's cooking, Emil? Some one of the members threatening to sue you?"

He stopped to light his pipe before he answered me. "You know that 20 acres, that piece on the Lake Park road on the corner of John Paul road? Thats going to be a cemetery," Emil said. "The Sunrise Burial Park is going to develop it and they want me to landscape the grounds. Herman Hiss from Lake Park is the promoter; you remember, we put in a hedge for him three or four years ago. The only joker is he wants me to take cemetery lots in payment."

"You wont need over a quarter of a lot for your own remains, so what would you do with a whole mess of cemetery lots?", I said.

"He claims the lots will increase in value and if I take some lots they will be worth a lot of money in no time. Thats what he says," Emil looked at me over his glasses and waited for me to say something.

"They must be looking for a lot of people to check out right away. Whats the matter with the old Riverbend Cemetery, it aint more than half full yet," I said. "Unless there is an epidemic of some kind there wont be a big scramble for lots for the next 20 years or so," I said. "Do they expect to strike oil or open a gold mine? That aint nothing but pasture land, thats all its been for the last 50 years. It aint nothing to get excited about the way I see it."

Emil didnt pay any attention to me. He said, "They want to give me

\$1000 worth of lots in exchange for landscaping. I thought I could work off some of my hackberrys and bridal wreath that I am long on. Lots he claims will be worth at least \$250 each in a year or so and he is going to give me 10 lots. Im going to look it over, anyway," Emil said.

So that afternoon we took the Chevy and drove over to the place and sized it up. Emil studied it for a few minutes and paced it off. "We'll put in a row of hackberry clean around it. We can work in some of them crooked ones in that block by the railroad track and out in front along the road we'll put in a lot of clumps of bridal wreath. That ought to satisfy him. I'll go home and draw up a fancy plan. I'll make it up with colored crayons like the one I done for Mrs. Morse."

"Better find out first if Hiss really owns the land or if he has just got some wild ideas about it; remember the time you got stuck on that golf course that never panned out," I said.

"That's right, Chas.," Emil said. "We'll have to investigate this Herman Hiss, only we got to do it so he dont know he is being shadowed."

"Why not get George Pound, he dont do nothing all day but steer the kids over the crossing at the school house. After all he is a policeman, he should be sort of a detective," I said.

"Bosh," Emil said. "He couldnt investigate a dog fight. We'll get Doc Hart. He knows all the farms around here backwards and forwards where he has been doctoring sick cows for the past 30 years. We'll get him to make an investigation on who owns the land, I'll drive right downtown and see Doc right now."

By then it was after four oclock and I knew I wouldnt see Emil any more that day, which I didnt. If he gets downtown he is liable to turn up at Steamboat Fulton's bar or else he will stop in at Reds Filling Station for a game of pinochle.

He told me the next day that Doc had gone to a veterinary convention in Peoria and he wouldnt be back until Sunday. "We'll have to get somebody else," Emil said.

"What about Sandy Bowers?", I said. "There is a good man. He

knows everybody, why dont you get Sandy?"

"Yes, and he would tell everybody my business too. We dont want him," Emil stopped and looked at me a minute. "Chas., Im going to appoint you a committee of one to do the investigating."

So I had to do it. First I went to the courthouse and looked up the tax rolls. It wasnt much of a trick to find out that piece was owned by old Oscar Swenson who lived right here in Riverbend. He is a retired farmer who owns the building on Main street where Sandy Bowers has his office and a lot of other property too. There wasnt any record of a sale to Herman Hiss or anybody else.

I went back to the office and told Emil what I found. "Why, I know Oscar well," Emil said. "He used to hound me about my Canadian thistles when he was the weed commissioner. I'll ask him right out about the cemetery and Herman Hiss." And away he went.

Next day he told me he run down Mr. Swenson at the bank. He asked him right out, "Oscar, do you still own that 20 acres there on the Lake Park road on the corner of John Paul road? Whats the deal I heard about a cemetery going in there?" Emil said.

"Yes, I own that piece," Oscar said. "Herman Hiss has been after me to start a cemetery there. Herman is going to develop it on a percentage basis. All I do is furnish the land. He says he can sell the lots just as soon as we get a plot made."

"Herman wants me to landscape it and exchange the work for 10 lots in the cemetery," Emil said. "Do I get a deed to the lots or is it some kind of a hocus pocus, thats what I want to know," Emil said. "I aint putting in a \$1000 worth of stuff if its just going back to pasture land. I want something in writing from you, Oscar."

So they sat down and Oscar and Emil made out an agreement saying that Emil was to have 10 lots just as soon as the cemetery was plotted. "You'll get your deed just as soon as the plot is finished," Oscar said.

Emil come home and talked to me

[Continued on page 100]

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COMING EVENTS

MEETING CALENDAR

September 18 to 20—Oregon Association of Nurserymen, northwest nurserymen's Indian summer session, Gearhart hotel, Gearhart, Ore.

September 26 to 28—California Association of Nurserymen, annual convention, Miramar hotel resort, Santa Barbara, Calif.

September 28 and 29—Oklahoma State Nurserymen's Association, Western Hills Lodge, Wagoner, Okla.

October 13 to 15—Florida Nurserymen and Growers' Association, annual trade meet, Pennsylvania hotel, West Palm Beach, Fla.

October 25 to 27—Plant Propagators Society, Western chapter, annual meeting, Asilomar conference grounds, Pacific Grove, Calif.

October 25 to 28—American Horticultural Society, 16th horticultural congress, Hotel Northampton and Wiggins Tavern, Northampton, Mass.

November 9 and 10—Holly Society of America, fall meeting, Williamsburg, Va.

CALIFORNIA PROGRAM

Plans that have been announced by Elmer D. Merz, executive secretary, for the 51st annual convention of the California Association of Nurserymen, September 26 to 28, with the Miramar hotel, Santa Barbara, as headquarters, include, in addition to the business sessions, a big trade show and a day devoted chiefly to entertainment features. Also scheduled is the initial showing of the new C. A. N. sales film. The complete schedule follows:

SEPTEMBER 25

9 a. m. — Board of directors' annual meeting.

SEPTEMBER 26

9:30 a. m. — Call to order, by President Robert T. Warner, Manhattan Beach.

President's report.

Executive secretary's report.

"The Nurserymen's Public Enemy No. 1," by Robert W. Harper, chief of the bureau of entomology, state of California.

12:30 p. m. — Lunch. Address: "Economic Outlook for California Projected into the 60's," by Harold L. Buma, chief of regional research, economic department, Bank of America.

2:30 p. m. — Convention reconvenes. Committee reports.

"Let's Put Our Cards on the Table," by John A. Hume, director of nursery and garden sales, Sears Roebuck & Co.

8:30 p. m. — Entertainment and dancing.

SEPTEMBER 27

A. A. N. breakfast.

Golf, fishing, ping-pong and horse-shoes.

Buses leave for sight-seeing tour.

Exhibits open all day.

[Continued on page 20]

Join the P&D Profit Parade

and build a better rose business!

MORE NEW ROSES! Sixteen new varieties, the result of 12 years of scientific hybridizing, enable you to offer something new, different and exciting in every type of rose. Sell something *new* this year!

WE PAY THE FREIGHT! Smashing through the last profit barrier, we now offer full freight allowance on 250 rose bushes or more. Shipments by refrigerated pool car to distribution points and cold storage warehouses.

MORE EXTRA SERVICE! Extras that mean less work and more profit for you—such as pre-labeling, pre-trimming to specifications, free color cards, free color plates, banners, electros, dot proofs, and ad mats to “perk up” your advertising and build greater sales.



All America
WILL DISCOVER P&D ROSES THIS YEAR!

Sparked by a great cooperative AARS advertising campaign and an expanded program of Peterson & Dering national advertising, P&D roses will have the greatest send-off ever! Starting this July, continuing this Fall and into next Spring, every garden editor and millions of garden readers will be exposed to the greatest barrage of rose promotion ever launched! This can lead to only one result—the greatest profit opportunity in roses you have ever known!

Peterson & Dering
ROSE GROWERS
SCAPPOOSE, OREGON

Oregon's Best Source of Good Roses... "Finest Anywhere"

BROAD-LEAVED EVERGREENS

All quotations are for B&B stock.

	Each	Each		Each	Each		Each	Each
	Per 10	Per 100		Per 10	Per 100		Per 10	Per 100
<i>Abelia grandiflora</i>			<i>Ilex crenata repandens</i>			<i>Nandina domestica</i>		
2 to 3 ft.	\$1.50	\$1.25	12 to 15 ins.	\$1.25	\$1.00	15 to 18 ins.	\$0.90	\$0.75
3 to 4 ft.	2.00	1.75	15 to 18 ins.	1.50	1.25	18 to 24 ins.	1.20	1.00
<i>Barberry, julianae</i>			18 to 24 ins.	2.00	1.75	24 to 30 ins.	1.50	1.25
15 to 18 ins.	1.75	1.50	24 to 30 ins.	2.25	2.00	30 to 36 ins.	1.75	1.50
18 to 24 ins.	2.25	2.00	30 to 36 ins.	3.00	2.75	3 to 4 ft.	2.25	2.00
24 to 30 ins.	2.75	2.50	<i>Ilex crenata rotundifolia</i>			<i>Osmanthus fortunei</i>		
30 to 36 ins.	3.25	3.00	12 to 15 ins.	1.15	1.00	18 to 24 ins.	1.75	1.50
<i>Boxwood harlandi</i>			15 to 18 ins.	1.40	1.25	24 to 30 ins.	2.25	2.00
6 to 8 ins.	.70	.60	18 to 24 ins.	1.65	1.50	30 to 36 ins.	2.75	2.50
8 to 10 ins.	.85	.75	24 to 30 ins.	2.25	2.00	<i>Viburnum burkwoodi</i>		
10 to 12 ins.	1.15	1.00	30 to 36 ins.	3.00	2.75	18 to 24 ins.	1.50	1.25
12 to 15 ins.	1.40	1.25	3 to 4 ft.	4.00	3.50	24 to 30 ins.	1.75	1.50
15 to 18 ins.	1.65	1.50	<i>Ilex crenata rotundifolia (Pyramida)</i>			30 to 36 ins.	2.25	2.00
18 to 24 ins.	2.25	2.00	18 to 24 ins.	2.00	1.75	3 to 4 ft.	2.75	2.50
<i>Boxwood sempervirens</i>			24 to 30 ins.	2.50	2.25	4 to 5 ft.	3.50	3.00
10 to 12 ins.	1.20	1.00	30 to 36 ins.	3.75	3.25	<i>Viburnum chenaulti</i>		
12 to 15 ins.	1.40	1.25	<i>Ilex glabra</i>			18 to 24 ins.	1.50	1.25
15 to 18 ins.	2.25	2.00	18 to 24 ins.	1.75	1.50	24 to 30 ins.	1.75	1.50
18 to 24 ins.	3.25	3.00	24 to 30 ins.	2.25	2.00	<i>Viburnum juddi</i>		
24 to 30 ins.	4.50	4.00	30 to 36 ins.	2.75	2.50	18 to 24 ins.	1.50	1.25
<i>Boxwood welleri</i>			<i>Ilex opaca seedlings</i>			24 to 30 ins.	2.00	1.75
12 to 15 ins.	1.40	1.25	2 to 3 ft.	1.75	1.50	30 to 36 ins.	2.50	2.25
15 to 18 ins.	2.25	2.00	3 to 4 ft.	2.75	2.50	<i>Viburnum rhytidophyllum</i>		
<i>Eleagnus fruitlandi</i>			4 to 5 ft.	3.75	3.50	18 to 24 ins.	1.50	1.25
2 to 3 ft.	1.50	1.25	5 to 6 ft.	5.00	5.00	24 to 30 ins.	2.00	1.75
3 to 4 ft.	2.25	2.00	6 to 8 ft.	7.00	6.50	30 to 36 ins.	2.50	2.25
<i>Eleagnus simoni</i>			<i>Ilex opaca Ardens</i>					
2 to 3 ft.	1.50	1.25	2 to 3 ft.	2.25	2.00			
3 to 4 ft.	2.25	2.00	3 to 4 ft.	3.50	3.00			
<i>Euonymus alatus compactus</i>			<i>Ilex opaca Croonenburg</i>					
18 to 24 ins.	1.75	1.50	2 to 3 ft.	2.25	2.00			
24 to 30 ins.	2.25	2.00	3 to 4 ft.	3.25	3.00			
30 to 36 ins.	2.75	2.50	4 to 5 ft.	4.25	4.00			
<i>Euonymus fortunei erectus</i>			5 to 6 ft.	5.25	5.00			
15 to 18 ins.	1.25	1.00	<i>Ilex opaca East Palatka</i>					
18 to 24 ins.	1.50	1.25	2 to 3 ft.	1.75	1.50			
24 to 30 ins.	1.70	1.50	3 to 4 ft.	2.75	2.50			
30 to 36 ins.	2.00	1.75	4 to 5 ft.	3.75	3.50			
3 to 4 ft.	2.75	2.50	5 to 6 ft.	5.50	5.00			
<i>Euonymus patens</i>			<i>Ilex opaca fosteri</i>					
18 to 24 ins.	1.20	1.00	2 to 3 ft.	2.25	2.00			
2 to 3 ft.	1.75	1.50	3 to 4 ft.	3.25	3.00			
3 to 4 ft.	2.25	2.00	4 to 5 ft.	4.25	4.00			
<i>Euonymus radicans, assorted types</i>			5 to 6 ft.	5.50	5.00			
15 to 18 ins.	1.25	1.00	<i>Ilex opaca howardi</i>					
18 to 24 ins.	1.50	1.25	2 to 3 ft.	2.25	2.00			
24 to 30 ins.	1.75	1.50	3 to 4 ft.	3.25	3.00			
30 to 36 ins.	2.25	2.00	<i>Ilex opaca Hume No. 2</i>					
<i>Ilex cassine angustifolia</i>			2 to 3 ft.	2.25	2.00			
3 to 4 ft.	3.50	3.00	3 to 4 ft.	3.25	3.00			
5 to 6 ft.	5.50	5.00	<i>Ilex opaca Reynolds</i>					
<i>Ilex cornuta, selected types, root-pruned—several of our own selections which we feel are superior.</i>			2 to 3 ft.	2.25	2.00			
15 to 18 ins.	1.50	1.25	3 to 4 ft.	3.50	3.00			
18 to 24 ins.	2.00	1.50	4 to 5 ft.	4.50	4.00			
24 to 30 ins.	2.50	2.00	<i>Ilex opaca Taber</i>					
30 to 36 ins.	3.00	2.75	4 to 5 ft.	4.25	4.00			
3 to 4 ft.	3.75	3.50	5 to 6 ft.	5.25	5.00			
<i>Ilex cornuta burfordi, root-pruned</i>			<i>Ilex vomitoria</i>					
15 to 18 ins.	1.50	1.25	18 to 24 ins.	1.40	1.25			
18 to 24 ins.	1.75	1.50	24 to 30 ins.	1.75	1.50			
24 to 30 ins.	2.00	1.75	30 to 36 ins.	2.25	2.00			
30 to 36 ins.	2.75	2.50	3 to 4 ft.	3.00	2.75			
3 to 4 ft.	3.50	3.25	4 to 5 ft.	3.75	3.50			
<i>Ilex cornuta Hume, root-pruned</i>			<i>Ilex vomitoria nana</i>					
15 to 18 ins.	1.50	1.25	12 to 15 ins.	1.75	1.50			
18 to 24 ins.	1.75	1.50	15 to 18 ins.	2.25	2.00			
24 to 30 ins.	2.25	2.00	18 to 24 ins.	2.75	2.50			
30 to 36 ins.	2.75	2.50	<i>Ilex vomitoria Pride of Houston</i>					
<i>Ilex cornuta rotunda</i>			18 to 24 ins.	1.40	1.25			
10 to 12 ins.	1.25	1.00	24 to 30 ins.	1.75	1.50			
12 to 15 ins.	1.75	1.50	30 to 36 ins.	2.25	2.00			
15 to 18 ins.	2.25	2.00	3 to 4 ft.	3.00	2.75			
18 to 24 ins.	2.75	2.50	<i>Jasmine, floridum</i>					
<i>Ilex crenata Billoid</i>			15 to 18 ins.	1.20	1.00			
12 to 15 ins.	1.25	1.00	18 to 24 ins.	1.50	1.25			
15 to 18 ins.	1.50	1.25	2 to 3 ft.	1.75	1.50			
18 to 24 ins.	1.75	1.50	<i>Laurel, Cherry</i>					
24 to 30 ins.	2.25	2.00	2 to 3 ft.	1.50	1.25			
30 to 36 ins.	2.75	2.50	3 to 4 ft.	1.75	1.50			
<i>Ilex crenata convexa</i>			4 to 5 ft.	2.50	2.25			
12 to 15 ins.	1.25	1.00	5 to 6 ft.	3.50	3.00			
15 to 18 ins.	1.50	1.25	<i>Ligustrum lucidum (Black Wax)</i>					
18 to 24 ins.	1.75	1.50	18 to 24 ins.	1.20	1.00			
24 to 30 ins.	2.25	2.00	24 to 30 ins.	1.50	1.25			
<i>Ilex crenata convexa compacta</i>			30 to 36 ins.	1.75	1.50			
15 to 18 ins.	2.00	1.75	<i>Ligustrum lucidum Suwannee River</i>					
18 to 24 ins.	2.25	2.00	15 to 18 ins.	1.15	1.00			
<i>Ilex crenata hetzi</i>			18 to 24 ins.	1.40	1.25			
12 to 15 ins.	1.20	1.00	24 to 30 ins.	1.65	1.50			
15 to 18 ins.	1.50	1.25	30 to 36 ins.	2.00	1.75			
18 to 24 ins.	1.75	1.50	3 to 4 ft.	2.50	2.25			
24 to 30 ins.	2.50	2.25	<i>Magnolia grandiflora</i>					
<i>Ilex crenata Magda</i>			2 to 3 ft.	1.75	1.50			
12 to 15 ins.	1.50	1.25	3 to 4 ft.	2.75	2.50			
15 to 18 ins.	1.75	1.50	4 to 5 ft.	3.75	3.50			
			5 to 6 ft.	5.50	5.00			
			6 to 8 ft.	6.25	7.50			

MISCELLANEOUS CONIFERS

	Each	Each
	Per 10	Per 100
<i>Cedrus atlantica</i>		
3 to 4 ft.	\$3.00	\$2.75
4 to 5 ft.	4.00	3.75
5 to 6 ft.	5.00	4.75
<i>Cedrus deodara</i>		
2 to 3 ft.	2.00	1.75
3 to 4 ft.	3.00	2.75
4 to 5 ft.	4.00	3.75
<i>Chamaecyparis plumosa (Green)</i>		
2 to 3 ft.	2.00	1.75
3 to 4 ft.	2.50	2.25
4 to 5 ft.	3.50	3.00
5 to 6 ft.	4.25	3.75
<i>Chamaecyparis plumosa aurea</i>		
2 to 3 ft.	2.00	1.75
3 to 4 ft.	2.50	2.25
4 to 5 ft.	3.50	3.00
<i>Austrian Pine</i>		
2 to 3 ft.	2.25	2.00
3 to 4 ft.	3.75	3.25
<i>White Pine</i>		
2 to 3 ft.	2.25	2.00
3 to 4 ft.	3.75	3.25
<i>Mugho Pine</i>		
12 to 15 ins.	2.25	2.00
15 to 18 ins.	2.75	2.50
18 to 24 ins.	3.50	3.00

FLOWERING TREES, B & B

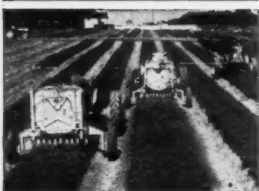
We have available on our premises cold storage facilities for Magnolia and other items. Inquire about this.

	Each	Each
	Per 10	Per 100
<i>Magnolia soulangiana</i>		
2 to 3 ft.	\$2.25	\$2.00
3 to 4 ft.	3.00	2.75
4 to 5 ft.	3.75	3.50
<i>White Dogwood</i>		
2 to 3 ft.	1.50	1.25
3 to 4 ft.	2.00	1.75
4 to 5 ft.	2.50	2.25
5 to 6 ft.	3.50	3.00
6 to 8 ft.	5.00	4.50
<i>Pink Dogwood</i>		
2 to 3 ft.	2.00	1.75
3 to 4 ft.	3.00	2.75
4 to 5 ft.	4.25	3.75
<i>Flowering Crab, Katherine (Light Pink)</i>		
(Semi-Dwarf Shrub Form)		
4 to 5 ft.	2.25	2.00
5 to 6 ft.	2.75	2.50
<i>Flowering Crab, eleyi (Red)</i>		
1 to 1 1/4 ins.	2.25	2.00
1 1/4 to 1 1/2 ins.	2.75	2.50
1 1/2 to 2 ins.	3.75	3.25
<i>Flowering Crab, Hopa (Deep Pink)</i>		
1 to 1 1/4 ins.	2.25	2.00
1 1/4 to 1 1/2 ins.	2.75	2.50
1 1/2 to 2 ins.	3.75	3.25

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Musser trees with their strong, extensively branched, compact root system will grow and thrive where inferior stock may fail to survive.

Careful Selection of Seed with good heredity—Scientific Culture
—New Techniques in fertilization and spraying—Modern Equipment—Experienced Personnel and large volume production enable us to give you highest-quality stock at lowest possible prices.

A LARGE SELECTION OF SEEDLINGS AND TRANSPLANTS, such as—

	50 at 100 rate	Per 100	Per 1000		50 at 100 rate	Per 100	Per 1000
● SPECIAL STRAIN SCOTCH PINE Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed. We have all other best strains Scotch Pine.				● JAPANESE YEW—Grown from seed <i>Taxus cuspidata capitata—upright pyramidal</i> (2-1), T., 4 to 8 ins....	\$25.00	\$200.00	
2-yr., S., 2 to 4 ins.....	\$ 3.00	\$ 15.00		● JAPANESE YEW—Transplanted rooted cuttings			
2-yr., S., 5 to 10 ins.....	6.00	30.00		<i>Taxus cuspidata—spreading</i>			
3-yr., S., 10 to 18 ins.....	9.00	45.00		1-yr., T., 5 to 6 ins.....	25.00	175.00	
3-yr., T., 6 to 12 ins.....	20.00	100.00		2-yr., T., 6 to 8 ins.....	35.00	250.00	
● WHITE PINE				<i>Taxus hicksi—upright</i>			
3-yr., S., 5 to 10 ins.....	6.00	30.00		1-yr., T., 5 to 6 ins.....	25.00	175.00	
4-yr., T., 8 to 16 ins.....	15.00	75.00		2-yr., T., 6 to 8 ins.....	40.00	300.00	
● MUGHO PINE—best true dwarf				<i>Taxus browni—upright</i>			
2-yr., S., 2 to 3 ins.....	5.00	25.00		1-yr., T., 4 to 6 ins.....	25.00	175.00	
4-yr., T., 3 to 5 ins.....	15.00	75.00		2-yr., T., 6 to 8 ins.....	40.00	300.00	
● AUSTRIAN PINE				<i>Taxus intermedia—spreading</i>			
2-yr., S., 3 to 6 ins.....	4.00	20.00		1-yr., T., 4 to 6 ins.....	25.00	175.00	
3-yr., S., 6 to 12 ins.....	7.00	35.00		2-yr., T., 6 to 8 ins.....	35.00	250.00	
● BLACK HILLS SPRUCE				● JUNIPER—Blue Pfitzer—Chinensis hetzi			
3-yr., S., 4 to 8 ins.....	7.00	35.00		1-yr., T., 5 to 7 ins.....	25.00	200.00	
4-yr., T., 8 to 12 ins.....	9.00	45.00		● GLOBE ARBORVITAE			
● NORWAY SPRUCE—Fast-growing				<i>Woodwardi—dark green</i>			
2-yr., S., 5 to 10 ins.....	7.00	35.00		1-yr., T., 4 to 6 ins.....	30.00	250.00	
3-yr., S., 10 to 18 ins.....	9.00	45.00		2-yr., T., 5 to 7 ins.....	40.00	....
3-yr., T., 6 to 10 ins.....	15.00	75.00		<i>Hovey's—green</i>			
● WHITE SPRUCE				1-yr., T., 4 to 6 ins.....	25.00	200.00	
3-yr., S., 8 to 14 ins.....	8.00	40.00		2-yr., T., 6 to 8 ins.....	40.00	300.00	
4-yr., T., 6 to 12 ins.....	15.00	75.00		● PYRAMIDAL ARBORVITAE—Compacta			
● COLORADO BLUE SPRUCE				1-yr., T., 5 to 7 ins.....	35.00	300.00	
3-yr., S., 6 to 12 ins.....	11.00	55.00		● JAPANESE HOLLY			
4-yr., T., 4 to 8 ins.....	18.00	90.00		<i>Ilex rotundifolia</i>			
● DOUGLAS FIR				1-yr., T., 4 to 6 ins.....	20.00	175.00	
2-yr., S., 4 to 8 ins.....	6.00	30.00		<i>Ilex convexa</i>			
3-yr., S., 8 to 12 ins.....	11.00	55.00		1-yr., T., 4 to 6 ins.....	20.00	175.00	
● JUNIPERUS VIRGINIANA				<i>Ilex crenata hetzi</i>			
2-yr., S., 5 to 10 ins.....	7.00	35.00		Transplant liners,			
● CANADIAN HEMLOCK				6 to 10 ins.....	35.00	300.00	
2-yr., S., 3 to 6 ins.....	9.00	45.00		● NORWAY MAPLE			
3-yr., S., 6 to 10 ins.....	16.00	80.00		Seedlings, 12 to 18 ins....	8.00	40.00	
● CONCOLOR FIR				● WHITE-FLOWERING DOGWOOD			
3-yr., S., 6 to 10 ins.....	8.00	40.00		Seedlings, 4 to 8 ins.....	7.00	35.00	

All our 3-yr. and 4-yr. seedlings are root pruned before previous growing season to make semitransplants.

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NOW OVER 35 MILLION!

MUSSER FORESTS

Box 16-1
INDIANA, PENNA.

12:30 p. m. — Lunch and annual baseball game.
6 p. m. — Cocktail party.
7 p. m. — Steak barbecue at Rancho Visatadores.

9 p. m. — Dancing and entertainment.
SEPTEMBER 28

10 a. m. — Call to order.

Committee reports.

Initial showing of new C. A. N. sales film.

Panel discussion: "As I See 1962," with J. Awdry Armstrong, Armstrong Nurseries, Ontario, chairman, and Willis Stribling, Stribling's Nurseries, Inc., Merced; James Perry, Perry's Plants, Inc., Montebello; Jack McDonnell, McDonnell Nursery, Oakland, and David Stump, Armstrong Nurseries, panel members.

12:30 p. m. — Lunch. Speaker, Gene Flack, sales counselor.

2:30 p. m. — Convention reconvenes.

A. A. N. reports.

Selection of 1963 convention city.

Election of officers.

7:30 p. m. — President's banquet and entertainment.

Major prize awards.

OKLAHOMA PROGRAM

Talks on lawn problems, container-grown stock and garden shop arrangement, plus trade displays, will provide interest for all members of the Oklahoma State Nurserymen's Association at the annual convention to be held September 28 and 29 at the Western Hills Lodge, Wagoner, Okla. Complete details of the business and entertainment features of the program follow:

SEPTEMBER 27

2 p. m. — Registration, Sequoyah hall.

3 p. m. — Board of directors' meeting and executive committee meeting.

6 p. m. — Preconvention buffet dinner, Seminole and Chickasaw rooms.

SEPTEMBER 28

8 a. m. — Trade exhibits open.

10 a. m. — Women's ice-breaker party, Seminole room.

10 a. m. — Meeting called to order by President Ezra Porter, Porter's Nursery & Flower Shop, Oklahoma City, Sequoyah hall.

10:10 a. m. — Panel discussion, "Growing and Care of Container-grown Stock"; moderator, Harold Nickel, Greenleaf Nursery Co., Muskogee, Okla., and panel members, W. D. Kenyon, Kenyon's Nursery, Dover, Okla.; Glen Weaver, Greenleaf Nursery Co., and Steve Verhalen, Verhalen Nursery, Scottsville, Tex.

11:15 a. m. — "Report from the A. A. N. Washington Office," by Robert Lederer, legislative assistant, American Association of Nurserymen.

12 noon—Lunch. Address, "Arrangement of Garden Shops," by Bill Biggs, Bill Biggs Gardenland, Tulsa, Okla.

1:30 p. m. — Bus tour of Ozark Nursery Co., Tahlequah, and Greenleaf Nursery Co., with free barbecue dinner at the Ozark Nursery Co.

11 p. m. — Informal dance, Chickasaw and Seminole rooms.

SEPTEMBER 29

General meeting, Sequoyah hall:

10 a. m. — "Lawn Diseases," by Prof.

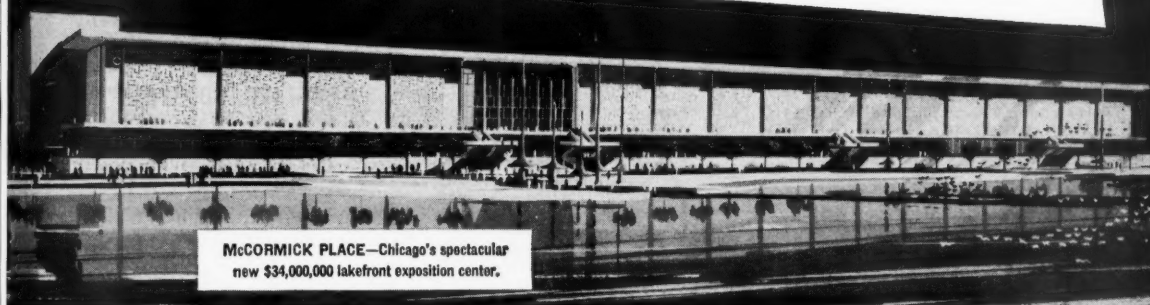
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- ☐ Wholesaler ☐ Retailer ☐ Dept. & Chain Store Buyer
☐ Importer-Exporter ☐ Mfgs' Agent ☐ Manufacturer ☐ Other
☐ Please send us your hotel reservation blank.

Minors under 18 yrs. of age will not be admitted under any circumstances.

B A R G A I N S

In Lining-out Stock

We have not raised the price of most of our small plants in years, but the price of landscape stock is steadily advancing. Plant some of our items now and make yourself some real money.

HARDY AZALEAS

All azaleas are 2 to 3-yr. transplants, branched, and carry a small ball of soil.

AZALEA AMOENA. Very hardy evergreen foliage which turns rich bronze in winter. Semidouble, purple flowers. 4 to 6 ins. **\$15.00** per 100

AZALEA JAPONICA. Very hardy. Wide range of color. Red, pink, yellow, etc. Deciduous. 6 to 8 ins., T. **\$25.00** per 100

AZALEA KAEMPFERI. Seedlings (Japanese seed). Tall-growing, large flowers in various shades of pink and red. Flowers profusely; blooms when evergreen types fall. Deciduous. 4 to 6 ins., T. **\$15.00** per 1000

AZALEA KURUME. Very hardy. Will stand 19 degrees below zero. Gives a great variety of colors and types, from choice whites to orchids, deepest pinks and reds. Good evergreen foliage. 2-yr., 4 to 8 ins., T. **\$15.00** per 100

AZALEA SCHLIPPENBACHI. Considered by many the best azalea of all. Very large pink flowers; very large leaves which turn pink in fall. Deciduous. 4 to 6 ins., T., heavy .. **\$25.00** per 100

AZALEA WHITE. Evergreen. Large flowers with a pink blush in throat, similar to but much harder than Azalea Indica Alba. 4 to 8 ins., T. **\$15.00** per 100

AZALEA HINODEGIRI. 2-yr., T., 3 to 6 ins., br. Brilliant red. **\$15.00** per 100. Each plant carries a nice ball of soil.

LEUCOTHOE CATESBAEI

A good broad-leaved evergreen that grows in dense shade. Lily-of-the-Valley like flowers, reddish-bronze foliage in winter. Contrasts well with Azaleas and Rhododendrons. Fine for flower arrangements.

	Each
4 to 6 ins., T.	15c
6 to 8 ins., T.	20c
8 to 10 ins., T.	25c

EUONYMUS ALATUS

(Cork Bark Euonymus)

Interesting corklike wings on branches. Red berries, foliage turns bright rose-pink in fall. Really spectacular then. 6 to 9 ins., T. **\$10.00** per 100

AMERICAN ARBORVITAE

	Each
4 to 5 ft.	\$2.50
5 to 7 ft.	3.00
Ilex bullata , densely sheared	
18 to 21 ins.	2.50
21 to 24 ins.	3.00
2 to 2½ ft.	3.50
Ilex crenata , I. fortunei , I. crenata microphylla	
18 to 21 ins.	2.50
21 to 24 ins.	3.00
2 to 3 ft.	3.50

All of above plants are healthy and of good bright color.

ILEX CRENATA CONVEXA

(Ilex Bullata)

Owing to our unusual success in propagating this desirable item, we offer it at a very low price. Over 150,000 in stock. It is a very choice, very hardy, low-growing evergreen with shiny, dark green, convex, boxwood-like leaves. Grows fast into money up to 2 feet, and there slows down. Ultimate size 3 feet high and 4 feet wide. Easier to grow than Yews and can be used in sun or shade. Sells on sight. Grows very dense and contrasts well with other evergreens. Makes the perfect low hedge. Each 6 to 8 ins., 2-yr., T. **15c** 8 to 10 ins., 2-yr., T. **20c**

PIERIS JAPONICA

The most beautiful broad-leaved evergreen of all. In summer the color of the foliage is always changing, first red, then pale green and then dark green. In August the flower buds form in graceful racemes for next spring's flowers. White Lily-of-the-Valley flowers appear with the first warm weather, and flowers often last 6 weeks. Grows well in sun or shade. Makes a nice contrast with Azaleas and Rhododendrons.

As far as we know, no nursery has ever had too much Pieris Japonica. We had over 10,000 18 to 36-in. plants a few years ago, and today we are so oversold on it that we cannot maintain a stock of 1,000 12 to 16-in. plants. It sells on sight and transplants easily at almost any time of the year. It grows rapidly into salable sizes. Can be used in any kind of planting. Can be transplanted into beds now. Each plant carries a nice ball of soil. 4 to 6 ins., T. **\$15.00** per 100 6 to 8 ins., T. **20.00** per 100

Send for list of rare plants.

ENKIANTHUS CAMPANULATUS

Can be transplanted into beds now. For those desiring a different kind of plant for the shrub border or ericaceous plantings, we recommend Enkianthus campanulatus. Red stems, dark green leaves, cream to pink bell-like flowers that are useful for flower arrangements and a scarlet fall foliage. 4 to 8 ins., TT. **\$15.00** per 100 8 to 10 ins., TT. **25.00** per 100

JAPANESE BOXWOOD

Buxus Japonica is a little-appreciated evergreen because it is not well enough known. It grows fast up to 3 feet, shears well and can easily be kept at any size. Its light green, glossy leaves contrast well with other evergreens, and it will grow in sun or deepest shade—very hardy. 6 to 8 ins., 2-yr., T. **\$10.00** per 100 8 to 10 ins., 3-yr., T. **15.00** per 100

ENGLISH BOXWOOD

Part of the charm of many old gardens is produced by the edgings of Old English Boxwood. Plant some in a bed 6x8 ins. and in a couple of years you will have a stock for your customers. Its appeal is irresistible. It can be transplanted now. 3 to 4 ins., T. **\$10.00** per 100

VIBURNUM AMERICANUM

White flowers followed by red fruits in profusion. Very hardy. 10 to 12 ins., T. **\$7.50** per 100

TAXUS TRANSPLANTS

6 to 8 ins.

	Each
Cuspidata	15c
Media browni	15c
Media hicksi	15c

Nicely branched and a good root system.

ALAN WOLD NURSERY

NESHAMINY, Bucks Co., PA.

Dallas Wadsworth, botany department, Oklahoma State University, Stillwater, Okla.

10:45 a. m. — "Lawn Insects," by Dr. Robert Walton, entomology department, Oklahoma State University.

11:15 a. m. — "Care and Potting of Bare-root Roses," by Joe Abrahamson, Mount Arbor Nurseries, Shenandoah, Ia.

12 noon — Lunch. Speaker, Leon Hill. 2 p. m. — Women's entertainment, Seminole room.

3 p. m. — Business meeting.

Secretary-treasurer's report, by Cyrus E. Adams.

Committee reports.

Election of A. A. N. delegates.

Election of officers.

3:30 p. m. — Women's entertainment, Fort Gibson Queen boat trip.

7:30 p. m. — Annual banquet, Chickasaw and Seminole rooms. Presentation of "Oklahoma Outstanding Nurseryman" and honorary membership awards, Oklahoma nurseryman prize award, exhibitors' prize award and mystery prizes. Dancing.

OREGON PROGRAM DATA

Wayne Melott, Carlton Nursery Co., Forest Grove, chairman of the northwest nurserymen's Indian summer session to be held at Gearhart,

Ore., September 18 to 20, has named three speakers and their subjects. Ralph Shumm, United States National bank, Portland, will address the group on estates, wills, financing, etc. C. E. Seavery, public relations supervisor, Pacific Northwest Bell Telephone Co., will have as his subject "Breaking Through the Hay Barrier." His talk will cover new developments in the communications field, and he will demonstrate some of them through his ability as an amateur magician. Leonard Dunlap,

Here's why you get Better Trees and Nursery Stock from COLE

FOR more than three quarters of a century Cole Nursery Company has concentrated its efforts on developing and producing only the better varieties and highest-quality trees, shrubs, evergreens, hedge plants, vines and ground covers. The extensive experience gained since 1881 is now applied at our 1200-acre properties at Painesville and Circleville, Ohio. These large-scale operations are among the most modern nurseries in the industry.

Ideal soil and climate conditions, careful preparation and proper irrigation contribute to the quality of Cole plants. Highly mechanized systems of planting, cultivating and root pruning produce strong, healthy plants, with more compact root systems, at lower cost. Mechanical digging methods and careful packing assure delivery of Cole nursery stock in good condition with uninjured roots.

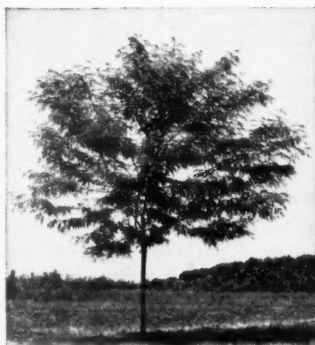
Literally millions of trees and plants, in more than 360 varieties, give you a dependable source of material to meet your needs in large quantity and wide variety. Write for our new catalog.



Spectacular SUNBURST
(Plant Patent No. 1313)

The sensational, new two-color tree with brilliant yellow foliage on branch tips. It appears to burst with bloom all summer long.

Stock these patented New Cole Originals for sure profits



Cole's New IMPERIAL
(Plant Patent No. 1605)

The graceful, spreading, new Honeylocust that grows strong and straight without staking. A favorite of landscape men and tree experts.



Cole's new SKYLINE
(Plant Patent No. 1619)

Distinctive, stately variety with strong trunk and shapely crown. Needs no staking. Dark green foliage has heavy, leathery texture.



Cole's New MAJESTIC
(Plant Patent No. 1534)

A clean, graceful, symmetrically-branched tree. Produces a straight, sturdy trunk and compact crown without staking or special trimming.



Cole's New TALLHEDGE
(Plant Patent No. 1388)

A thornless, glossy Columnar Buckthorn that grows to 12 feet. Ideal for tall, narrow, dense hedges or screens. Bears colorful berries.

**LARGE QUANTITIES
360 VARIETIES
WRITE FOR CATALOG**

THE COLE NURSERY CO.
PAINESVILLE, OHIO

**OHIO'S LARGEST
WHOLESALE NURSERY
ESTABLISHED 1881**

HIGHEST-QUALITY NORTHERN ALABAMA GROWN ORNAMENTALS

For Fall, 1961, we can offer, in quantity, the stock listed below. All merchandise has been properly grown and sheared as needed. All first class.

**NOTE: Clip this ad and save to refer to.
Our only complete list this fall!**

Pictured at right are our young, healthy, assorted evergreens. *Taxus cuspidata* in foreground.



B&B material is priced with reasonable quantities in mind. For less than 10 of a variety, add 25c. Ask for quotations on extra-large quantities of one variety.

Abelia Edward Goucher 2 to 3 ft., B&B.....	Each \$1.00	Ilex cornuta burfordii 12 to 15 ins., B&B.....	Each \$1.00	Ilex opaca femina—Croonenberg, Taber No. 3, Luke City and Howard	Each \$1.50
Abelia grandiflora 18 to 24 ins., B&B.....	.75	15 to 18 ins., B&B.....	1.25	18 to 24 ins., B&B.....	2.00
2 to 3 ft., B&B.....	1.00	18 to 24 ins., B&B, specimens.....	1.50	24 to 30 ins., B&B.....	2.00
Barberry, julianae, evergreen 15 to 18 ins., B&B.....	1.25	24 to 30 ins., B&B, specimens.....	2.00	30 to 36 ins., B&B.....	2.50
18 to 24 ins., B&B.....	1.50	30 to 36 ins., B&B, specimens.....	2.50	3 to 4 ft., B&B.....	3.00
2 to 3 ft., B&B.....	2.00	3 to 4 ft., B&B, specimens.....	3.50	4 to 8 ft., B&B.....	\$1.00 per ft.
Barberry, julianae nana 15 to 18 ins., B&B.....	1.70	Ilex cornuta compacta 12 to 15 ins., B&B.....	1.25	Ilex opaca fosteri No. 2 18 to 24 ins., B&B.....	1.50
18 to 24 ins., B&B.....	2.00	15 to 18 ins., B&B.....	1.50	24 to 30 ins., B&B.....	2.00
Buxus sempervirens (American Boxwood) 10 ins., B&B.....	1.00	18 to 24 ins., B&B.....	2.00	30 to 36 ins., B&B.....	2.50
12 ins., B&B.....	1.25	Ilex cornuta femina 15 to 18 ins., B&B.....	1.25	4 to 5 ft., B&B.....	4.00
15 ins., B&B.....	1.50	18 to 24 ins., B&B.....	1.50	Ilex vomitoria nana Shillings 12 to 15 ins., B&B.....	1.50
18 ins., B&B.....	2.00	24 to 30 ins., B&B.....	2.00	15 to 18 ins., B&B.....	2.00
21 ins., B&B.....	2.50	30 to 36 ins., B&B.....	2.50	Jasmine, floridum (Showy Jasmine) 18 to 24 ins., B&B.....	1.00
24 ins., B&B.....	3.00	Ilex cornuta rotunda 12 to 15 ins., B&B.....	1.50	24 to 30 ins., B&B.....	1.25
Camellia sasanqua Cleopatra 15 to 18 ins., B&B.....	1.25	Ilex crenata bullata (convexa) 10 to 12 ins., B&B.....	1.00	30 to 36 ins., B&B.....	1.50
18 to 24 ins., B&B.....	1.70	12 to 15 ins., B&B.....	1.25	Ligustrum lucidum compactum 18 to 24 ins., B&B.....	1.00
24 to 30 ins., B&B.....	2.00	15 to 18 ins., B&B.....	1.50	24 to 30 ins., B&B.....	1.25
Cleyera japonica 15 to 18 ins., B&B.....	1.25	18 to 24 ins., B&B.....	1.75	30 to 36 ins., B&B.....	1.50
18 to 24 ins., B&B.....	1.50	Ilex crenata Glass (Pyramidal helleri) 2 to 2½ ft., B&B.....	3.00	3 to 4 ft., B&B.....	2.00
Elaeagnus fruticand 18 to 24 ins., B&B.....	1.00	Ilex crenata Goldrush 15 to 18 ins., B&B.....	1.50	Ligustrum lucidum pendulum 18 to 24 ins., B&B.....	1.00
24 to 30 ins., B&B.....	1.25	18 to 24 ins., B&B.....	1.75	24 to 30 ins., B&B.....	1.25
30 to 36 ins., B&B.....	1.50	Ilex crenata helleri 10 to 12 ins., B&B.....	1.50	30 to 36 ins., B&B.....	1.50
3 to 4 ft., B&B.....	2.00	12 to 15 ins., B&B.....	2.00	Magnolia grandiflora 18 to 24 ins., B&B.....	1.00
Euonymus japonica and putens 18 to 24 ins., B&B.....	1.00	Ilex crenata helz and male 15 to 18 ins., B&B.....	1.25	2 to 3 ft., B&B.....	1.50
24 to 30 ins., B&B.....	1.25	18 to 24 ins., B&B.....	1.50	3 to 4 ft., B&B.....	2.50
Gardenia fortunei—Midsummer Charm, radicans and stricta nana 15 to 18 ins., B&B.....	.80	Ilex crenata rotundifolia 15 to 18 ins., B&B.....	1.25	4 to 5 ft., B&B.....	3.50
18 to 24 ins., B&B.....	1.00	18 to 24 ins., B&B.....	1.50	5 to 6 ft., B&B.....	4.50
Ilex aquifolium (English Holly) 15 to 18 ins., B&B.....	2.00	24 to 30 ins., B&B.....	2.00	Mahonia bealei 12 to 15 ins., B&B.....	1.00
18 to 24 ins., B&B.....	2.50	Ilex crenata rotundifolia, pyramidal 1½ to 2 ft., B&B.....	2.00	15 to 18 ins., B&B.....	1.25
Ilex cassine angustifolia 18 to 24 ins., B&B.....	1.50	2 to 2½ ft., B&B.....	2.50	18 to 24 ins., B&B.....	1.50
24 to 30 ins., B&B.....	1.75	Ilex East Palatka 18 to 24 ins., B&B.....	1.00	Nandina domestica 18 to 24 ins., B&B.....	1.00
30 to 36 ins., B&B.....	2.00	24 to 30 ins., B&B.....	1.50	2 to 3 ft., B&B.....	1.25
		2½ to 3 ft., B&B.....	1.75	Osmanthus ilicifolius (Holly-leaved Osmanthus) 15 to 18 ins., B&B.....	1.25
		3 to 4 ft., B&B.....	2.50	18 to 24 ins., B&B.....	1.50
		4 to 5 ft., B&B.....	3.00	2 to 3 ft., B&B.....	2.00
				Pittosporum tobira 15 to 18 ins., B&B.....	1.00
				18 to 24 ins., B&B.....	1.25

Washington county director of civil defense, will talk on the civil defense program.

L. H. (Bud) McGuire, Tacoma, Wash., president of the American Association of Nurserymen, is scheduled to speak to the group during the meeting, as is O. A. N. President Erwin Fowler, Milton-Freewater. Mrs. Betty Abbott, Abbott's Green Thumb, Portland, has a fine program of entertainment prepared for the second night of the meeting. "Nursery Rhymes" is the theme for the fun night. A part of the evening's program will be a costume party, following the buffet dinner.

ARROWHEAD CONFERENCE

[Continued from page 9]

with a coffee break at 10. Another hour and a half afternoon session began at 1:30 p. m. From 3 until 5 p. m. each day was the recreation period for golf, swimming in the center's heated pool, volley ball, horseshoes, biking, tennis, boating or just relaxation.

Each evening 5 o'clock marked the beginning of what the U. C. L. A. staff affectionately referred to as the "happy hour"—then dinner. The evening sessions began at 7:30 and lasted until 9 p. m.

As the primary purpose of the

course was to provide a broad base of the conventional areas of business management, the courses included, as in the previous year, accounting, finance, marketing and human relations or personnel.

New Courses Added

This year, however, a course was given which met with considerable approval by the class. This course, entitled "Management," concerned itself with management problems and techniques. It was presented by Dr. Harold Koontz, chairman of the transportation and management area, professor of business policy and

<i>Prunus caroliniana</i> (Cherry Laurel)	Each
18 to 24 ins., B&B.....	\$1.00
2 to 3 ft., B&B.....	1.25
3 to 4 ft., B&B.....	1.50
4 to 5 ft., B&B.....	2.00
5 to 6 ft., B&B.....	2.75
6 to 7 ft., B&B.....	3.75
<i>Pracantha formosana</i>	
1 gal., 18 to 24 ins., berried.....	.75
1 gal., 2 to 3 ft., berried.....	1.00
5 gal. specimens, berried.....	2.50
2 to 3 ft., B&B, R.P., staked, berried.....	2.00
3 to 4 ft., B&B, R.P., staked, berried.....	3.00
<i>Pracantha lalandi</i>	
1 gal., 2 to 3 ft.....	1.00
3 to 4 ft., B&B, R.P.....	2.50
<i>Scotch Broom</i>	
2 to 3 ft., T., heavy, B&B.....	.75
3 to 4 ft., T., heavy, B&B.....	1.00
4 to 5 ft., T., heavy, B&B.....	1.25
<i>Viburnum burkwoodi</i>	
18 to 24 ins., B&B.....	1.50
24 to 30 ins., B&B.....	1.75
30 to 36 ins., B&B.....	2.00
<i>Viburnum tinus</i>	
15 to 18 ins.....	1.25
18 to 24 ins.....	1.50
24 to 30 ins.....	1.75
<i>Azalea Hindogiri</i> (Kurume)	
6 to 8 ins.....	.65
8 to 10 ins.....	.80
10 to 12 ins.....	1.00
12 to 15 ins.....	1.35

NOTE: Also fair quantities of Cavalier, Cordoba, Christmas Cheer, Coral Bells, Glory, Illusion, Kaempferi, Macrantha, Prudence, Salmon Beauty, Snow and Treasure.

CONIFERS

<i>Biota aurea nana</i>	Each
(Berckmans Golden Arborvitae)	
15 to 18 ins., B&B.....	\$1.00
18 to 24 ins., B&B.....	1.25
24 to 30 ins., B&B.....	1.50
<i>Biota bakeri</i> (Baker's Arborvitae)	
24 to 30 ins., B&B.....	1.00
30 to 36 ins., B&B.....	1.25
3 to 4 ft., B&B.....	1.50
<i>Biota Bonita</i> (Bonita Arborvitae)	
15 to 18 ins., B&B.....	1.00
18 to 24 ins., B&B.....	1.25
24 to 30 ins., B&B.....	1.50
<i>Biota Bonita</i> (Upright or Blue Cone)	
24 to 30 ins., B&B.....	1.00
2 1/2 to 3 ft., B&B.....	1.25
<i>Biota fruticandula</i>	
(Golden Column Arborvitae)	
24 to 30 ins., B&B.....	1.25
3 to 4 ft., B&B.....	1.50
<i>Biota excelsa</i> (Excelsa Arborvitae)	
18 to 24 ins., B&B.....	1.00
30 to 36 ins., B&B.....	1.25
3 to 4 ft., B&B.....	1.50
<i>Juniperus chinensis compacta</i>	
(Compact Pfitzer Juniper)	
12 to 15 ins., B&B.....	1.10
15 to 18 ins., B&B.....	1.25
18 to 24 ins., B&B.....	1.50
<i>Juniperus chinensis compacta</i> , Nick's	
and <i>pfitzeriana</i> (Pfitzer Juniper)	
12 to 15 ins., B&B.....	1.10
15 to 18 ins., B&B.....	1.25
18 to 24 ins., B&B.....	1.50
24 to 30 ins., B&B.....	2.00

<i>Juniperus communis fastigiata</i>	Each
(Improved Irish Juniper)	
30 to 36 ins., B&B.....	\$1.00
3 to 4 ft., B&B.....	1.25
<i>Juniperus conferta</i> (Shore Juniper)	
12 to 15 ins., B&B.....	1.10
15 to 18 ins., B&B.....	1.25
18 to 24 ins., B&B.....	1.50
24 to 30 ins., B&B.....	2.00
<i>Juniperus excelsa stricta</i> (Greek	
Juniper) and <i>glauca hetzi</i>	
15 to 18 ins., B&B.....	1.00
18 to 24 ins., B&B.....	1.25
24 to 30 ins., B&B.....	1.50
<i>Juniperus horizontalis plumosa</i>	
(Andorra Juniper)	
12 to 15 ins., B&B.....	1.10
15 to 18 ins., B&B.....	1.25
18 to 24 ins., B&B.....	1.50
24 to 30 ins., B&B.....	1.75
<i>Juniperus Kiyonoi</i>	
3 to 4 ft., B&B.....	1.00
4 to 5 ft., B&B.....	1.25
5 to 6 ft., B&B.....	1.50
<i>Juniperus pfitzeriana</i> , Blue	
12 to 15 ins., B&B.....	1.10
15 to 18 ins., B&B.....	1.25
18 to 24 ins., B&B.....	1.50
<i>Juniperus pfitzeriana nana</i>	
(Armstrong Juniper)	
15 to 18 ins., B&B.....	1.50
18 to 24 ins., B&B.....	2.00
<i>Juniperus sabina</i>	
15 to 18 ins., B&B.....	1.00
18 to 24 ins., B&B.....	1.25
24 to 30 ins., B&B.....	1.50
<i>Juniperus sabina vouchron</i>	
15 to 18 ins., B&B.....	1.00
18 to 24 ins., B&B.....	1.25
<i>Juniperus virginiana burki, canaerti</i> and	
<i>keteleeri</i>	
2 to 3 ft., B&B.....	2.00
3 to 4 ft., B&B.....	3.00
<i>Pine, Austrian</i>	
2 to 3 ft., T., B&B.....	2.00
3 to 4 ft., T., B&B.....	3.00
<i>Pine, Mugo</i>	
10 to 12 ins., T., B&B.....	1.50
12 to 15 ins., T., B&B.....	2.00
15 to 18 ins., T., B&B.....	2.50
<i>Pine, White</i>	
24 to 30 ins., T., B&B.....	1.75
30 to 36 ins., T., B&B.....	2.25
3 to 4 ft., T., B&B.....	3.00
4 to 5 ft., T., B&B.....	4.00
<i>Cedrus deodara</i>	
2 to 3 ft., B&B.....	1.50
3 to 4 ft., B&B.....	2.50
<i>Spruce, Norway</i>	
15 to 18 ins., T., B&B.....	1.50
18 to 24 ins., T., B&B.....	1.75
24 to 30 ins., T., B&B.....	2.00
<i>Taxus cuspidata</i> and <i>hicksii</i>	
15 to 18 ins., B&B.....	2.00
18 to 24 ins., B&B.....	2.50
24 to 30 ins., B&B.....	3.00
<i>Taxus hatfieldi</i>	
12 to 15 ins., B&B.....	1.50
<i>Thuja occidentalis pyramidalis</i>	
(American Pyramidal Arborvitae)	
18 to 24 ins., B&B.....	1.25
24 to 30 ins., B&B.....	1.50
<i>Thuja occidentalis woodwardi</i> , Globe	
12 to 15 ins., B&B.....	1.00
15 to 18 ins., B&B.....	1.25
18 to 24 ins., B&B.....	1.50

SHADE AND FLOWERING TREES

<i>Acer dasycarpum</i> (Silver Maple)	Each
5 to 6 ft., T., Br.....	\$0.75
6 to 8 ft., T., Br.....	1.00
8 to 10 ft., T., Br.....	1.25
10 to 12 ft., T., Br.....	1.50
<i>Acer rubrum</i> (Native Red Maple)	
6 to 8 ft., T., Br.....	1.00
8 to 10 ft., T., Br.....	1.25
<i>Acer saccharum</i> (Sugar Maple)	
4 to 5 ft., T., whips.....	1.25
5 to 6 ft., T., whips.....	1.50
5 to 6 ft., T., Br.....	2.00
6 to 8 ft., T., Br.....	2.50
8 to 10 ft., T., Br.....	3.00
<i>Cornus florida</i> (White Dogwood)	
18 to 24 ins., B.R.....	.45
2 to 3 ft., B.R.....	.60
3 to 4 ft., B.R.....	1.00
4 to 5 ft., B.R.....	1.50
5 to 6 ft., B.R.....	2.00
6 to 7 ft., B.R.....	2.50
(B&B 50c extra)	
<i>Cornus florida rubra</i> (Pink Dogwood)	
2 to 3 ft., B.R.....	1.50
3 to 4 ft., B.R.....	2.00
4 to 5 ft., B.R.....	2.50
5 to 6 ft., B.R.....	3.00
(B&B 50c extra)	
<i>Crab, Wild</i>	
5 to 6 ft., Br.....	.75
8 to 10 ft., Br.....	1.00
<i>Mimosa</i>	
5 to 6 ft., Br.....	.75
6 to 8 ft., Br.....	1.00
<i>Redbud, American</i>	
6 to 8 ft., Br.....	1.00
8 to 10 ft., Br.....	1.25
10 to 12 ft., Br.....	1.50
<i>Willow, Weeping</i>	
5 to 6 ft., Br.....	.75
6 to 8 ft., Br.....	1.00

DECIDUOUS FLOWERING SHRUBS

(All flowering shrubs priced B.R. If B&B is preferred, add 25c.)	
<i>Cydonia japonica rubra</i>	Each
(Japanese Quince)	
2 to 3 ft., T., well Br.....	\$0.60
3 to 4 ft., T., well Br.....	.75
<i>Forsythia spectabilis</i>	
(Golden Bell Forsythia)	
2 to 3 ft., T., well Br.....	.40
3 to 4 ft., T., well Br.....	.50
4 to 5 ft., T., well Br.....	.75
<i>Lagerstroemia indica</i> (Crape Myrtle)	
William Toovey, white and lavender	
2 to 3 ft., B.R., well Br.....	.50
3 to 4 ft., B.R., well Br.....	.75

MISCELLANEOUS STOCK

<i>Ivy, English</i>	Each
3-in. pots, heavy.....	\$0.25
<i>Liriope muscari</i>	
heavy clumps.....	.25

LINERS

The best in lining-out stock. Write for list available. We actually do not grow liners, especially for sale, but always put in a few thousand more of each item than we usually need to line ourselves. One can usually buy a nice liner from "extras" of a grower specializing in B&B quality stock.

Also many conifers, broad-leaves, flowering and shade trees, flowering shrubs and liners in small quantities, not listed.

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General Manager



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transportation and acting head of executive programs and conferences of the university. He also has an impressive background of practical business experience, being currently director of Genisco, Inc.; Genestron, Inc.; Farr Co.; Dust Control, Inc., and American Small Business Investment Corp.

The new "Management" course was presented in three phases: The first, "Small Business Management Is Management"; second, "Making the Small Company Organization Work," and third, "Making Plans Succeed."

Another new presentation in-

cluded this year was a short treatment of "Economic Forecasting." The presentation was made by Dr. Robert M. Williams, professor of economics at U. C. L. A.

In this short but meaningful course, Dr. Williams gave explanations of a number of key economic indicators, including gross national product (GNP), and how these indicators can be related to the individual business. The course tied in well with financial management.

As in previous conference experiences, the students felt this was a most worthwhile one. The combination of professional presentations by

experts in their respective fields and the free exchange of practical business experience in the relevant subject areas made the conference especially meaningful.

The week of study provided the participants with an opportunity to observe their own business operations from an objective vantage point, in an academic environment which lent itself to this sort of critical introspection and analysis.

DWIGHT HUGHES, Cedar Rapids Nursery Co., Cedar Rapids, Ia., is building a home on a lot near the nursery.

We specialize in:

Abies concolor and *douglasi* (Firs)

Ilex crenata (Japanese Holly)

Ilex glabra (Japanese Holly)

Ilex microphylla (Japanese Holly)

Picea excelsa (Norway Spruce)

Pieris japonica (Japanese Andromeda)

Pinus, in variety, *excelsa* (Pines)

Taxus, in variety (Yews)

Thuja elegantissima (Arborvitae)

Tsuga canadensis (Hemlock)

CORNUS FLORIDA, for street planting, 1½ to 2½-in. cal., 8, 9 and 10 ft. and over, branching at 4, 5 and 6 ft. aboveground.

Acer, in variety — Norway, Crimson King and *negundo variegatum*

Amygdalus, in variety — (Flowering Peach)

Betula alba (European Birch)

Cornus florida rubra

Prunus, in variety — (Flowering Plum and Flowering Cherry)

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Red Bank, N. J.

F. T. C. COMPLAINT WINS COMPLIANCE BY FIRM

An official news release by the federal trade commission shows that the National Garden Society, a corporation, and Milo J. Sutliff, individually and as an officer of said corporation, have stipulated as to certain facts and entered into an agreement to cease and desist from the use of certain acts and practices set forth in the agreement.

The stipulation, signed by the defendants July 17, 1961, declares that the National Garden Society is a New York corporation, with its principal offices in New York city, and is a business enterprise operated for profit, not a society as that term is generally understood. It is further

stipulated that the defendants, selling a set of books, "New Illustrated Encyclopedia of Gardening," had represented that the stated price of the books constituted a 16 per cent saving, when in fact the basis for such claim was the higher price of another set of books which was not in all respects the same as those offered for sale.

The defendants have agreed to cease and desist, directly or through any corporate or other device, from:

"(1) Using the word 'Society' or any other word or words of similar import as part of their trade or corporate name, or otherwise representing the nature of their business in any manner not in accordance with the facts.

"(2) Representing that a stated

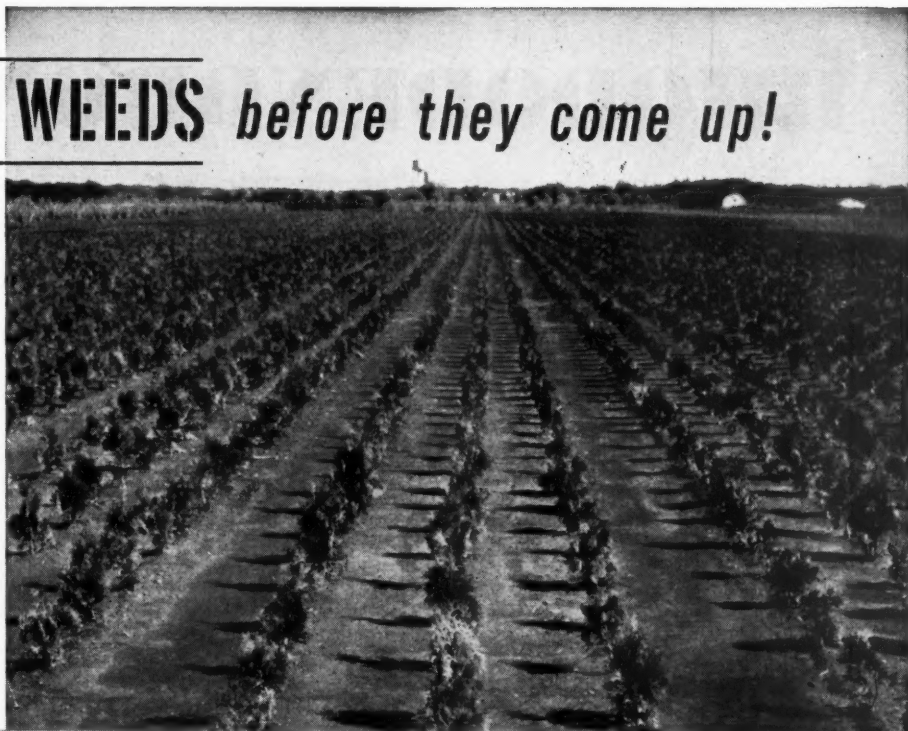
price is a reduction or constitutes a saving from the usual price of the product when such is not the fact, or otherwise representing prices or savings in any manner not in accordance with the facts."

The stipulation does not constitute an admission by the defendants that they have engaged in any method, act or practice violative of law, according to the F. T. C. release.

FRUITS IN HOME GARDENS

"Fruits in the Home Garden" is the latest handbook published by the Brooklyn Botanic Garden, Brooklyn, N. Y., at \$1. This 96-page book, designed to help amateur gardeners, is a complete guide to selecting stock, soil, planting, fertilizing, mulching,

STOP WEEDS *before they come up!*



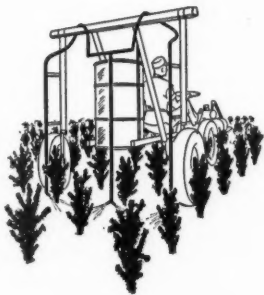
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pruning, disease and pest control. Separate articles discuss major kinds of fruits. Dr. George L. Slate, guest editor, touches on papaw, American elder, quince, western sand cherry, Nanking cherry and Korean cherry.

PRESERVE KILMER TREE

The massive oak tree on the campus at New Brunswick, N. J., which is said to have been the inspiration of the poem, "Trees," by Joyce Kilmer when he was an undergraduate at Rutgers University, has again had the attention of arborists in efforts to preserve it. When major surgery was prescribed as necessary for the huge tree last spring, Edward Chorpenning, president of the Woodland Tree Expert Co., Morristown, N. J., offered the services of his firm free of charge and the university accepted his offer. Ten years ago the Arborists Association of New Jersey carried out a similar operation. The tree then stood 68 feet high and had a spread of 108 feet.



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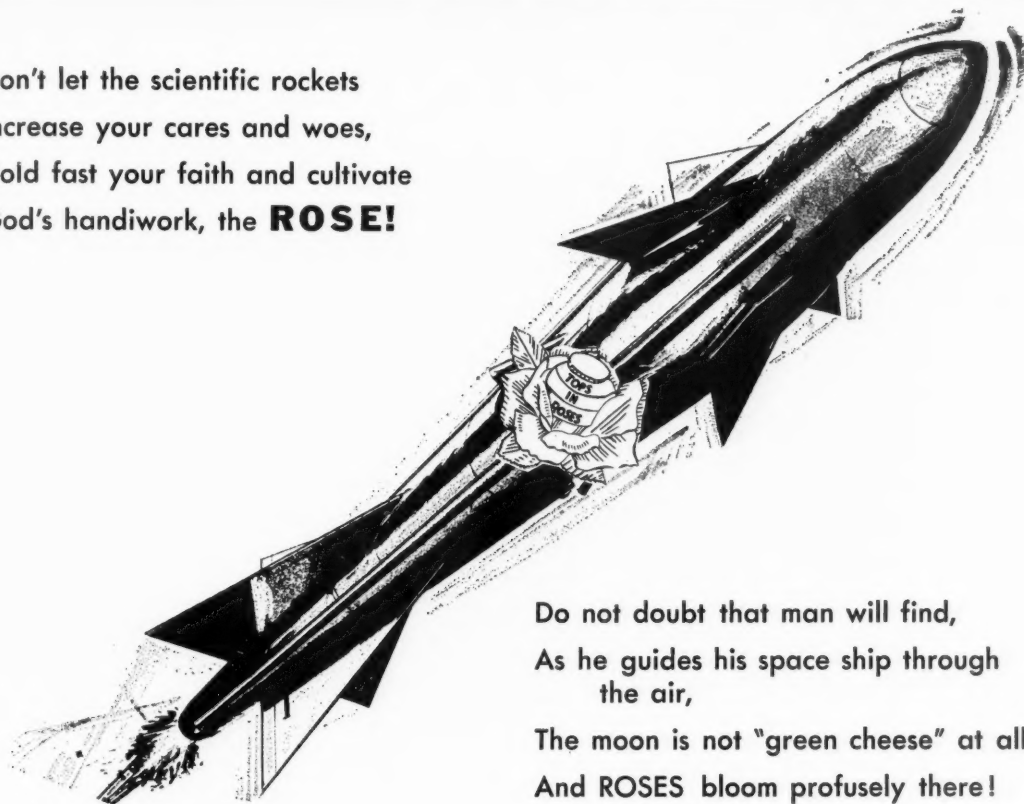
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Our trees are the original Hemming strain. All trees are raised from the original heavy-bearing parent trees, growing on our nurseries.

We have a good supply, in sizes from 12 to 18 ins. to 7 to 8 ft.

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As he guides his space ship through
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PRICES AND PROFITS

Comments on Business Management in the Nursery

By John J. Pinney

CHARGE IT TO OVERHEAD

A few days ago a well-to-do veterinarian came into the office with a problem. He had a couple of trees that were not doing well and feared that he might lose them. Could we not come out to see them and advise him what to do? It was apparent that he did not expect to pay for that advice; it was expected as part of our service. It was not so long ago that it cost us \$10 to have him tell us that our sick horse had the colic (yes, we still use some horses).

I have a nurseryman friend who was constantly pestered by a local doctor to "come over and tell me what to do about my evergreens" or some similar project. The doctor's home had been elaborately landscaped by an out-of-town firm; so he could not conveniently call on it for advice. This became such a nuisance for our friend that he finally sent the doctor a bill for \$25 for "services." The doctor paid but ceased to ask further advice from the nurseryman.

No doubt every nurseryman has encountered a fellow who would "give anything" to know what to do to save his trees, anything that is, except money or other valuable considerations. Nurserymen are so used to situations like this that they do not think much about them. Yet years of training and experience are necessary to qualify the nurseryman for giving the advice his customers seek. Making trips to see sick trees or give other services free (often times to noncustomers) are part of his cost of doing business. He charges it to overhead.

One is indeed fortunate if he has never been invited to donate nursery stock for landscaping the new school, clubhouse, church or community building. One is assured that it will be good advertising, although it is never made clear just how this advertising works—how one can cash in on it. Yet one is expected to welcome the opportunity to take advantage of it. One simply is not public spirited if he does not fall in enthusiastically with the idea.

One might have inquired if the

architect donated his services in preparing the plans and supervising the construction of the building. Surely it would be a good advertisement for him and ethical, too, because he would not be making any claims for himself. His art would speak for itself. Surely the contractor gave his services without charge. All seeing the excellent quality of his work would want him to construct their buildings too. One would not expect the brick manufacturer to make a charge for his bricks. They would cover the entire outside of the building for everyone to see, constituting in themselves a wonderful advertisement for Brindle's bricks. All buildings constructed in the future in that community would use only Brindle's bricks.

If one were brash (or astute) enough to make such inquiries of those who approached one for a donation, one was surely informed that

no one could expect those folks to render their services and give their products free because that was the way they made their living. The implication was that the nurseryman made his living some way other than producing and selling nursery stock. No doubt that was one of the many times one wished it were true. Of course one gave the nursery stock—and charged it to overhead.

Surely one recalls the day that an overheated customer came into the office to say the stock planted for him last year was nearly all dead and what was one going to do about it? One held one's temper with an effort and promised to go out to take a look. One managed to take the look while the customer was away from home, thus avoiding a possible physical encounter.

One found that the rose bed was choked with weeds and grass and the ground was cracked and hard; apparently it had never been cultivated nor weeded. There was reason to believe the bushes had never been sprayed. The hedge along the drive had suffered from "mower blight," and the evergreens had lost the battle with the neighborhood dogs. On the way back to the office one recalled that the guarantee extended only until last July. Furthermore, it

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Liquidating entire nursery stock from this estate. Approximately 9,000 items, consisting of trees, shrubbery, azaleas, plants, privet, evergreens, etc. This is hardy, select landscape stock. Also two greenhouses, and one heating plant with nearly new upright boiler. **TERMS: Cash.**

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—Photo by A. Sherwood

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A billboard lovely as a tree
Perhaps, unless the billboards fall,
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Fall 1961

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	Per 10	Per 100		Per 10	Per 100
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White	3.00	20.00	Juniperus horizontalis	3.00	22.50
Azalea calendulacea	3.00	20.00	Juniperus pfitzeriana	3.00	22.50
Azalea Hino-Crimson	3.00	20.00	Juniperus pfitzeriana	3.00	22.50
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Azalea vaseyi	3.00	20.00	glyptostroboides	5.00	40.00
Azalea viscosa	3.00	20.00	Oxydendron arboreum	5.00	40.00
Berberis julianae	3.00	20.00	Picea canadensis	5.00	40.00
Buxus handsworthii	3.00	20.00	Picea canadensis	5.00	40.00
Buxus koreana	3.00	20.00	Pieris japonica	3.00	20.00
Buxus sempervirens	3.00	20.00	Prunus laurocerasus	3.00	20.00
Chamaecyparis cyano	3.00	20.00	schlipkaensis	3.00	20.00
viridis	3.00	20.00	Rhododendron wilsoni	5.00	40.00
Chamaecyparis filifera	3.00	20.00	Sarcococca hookeriana	3.00	20.00
aurea	3.00	20.00	humilis	3.00	20.00
Cotoneaster adpressa	3.00	20.00	Taxus Anthony Wayne	3.50	25.00
Cotoneaster conspicua	3.00	20.00	(Plant Patent 1617), 2-yr.	3.50	25.00
decidua	3.00	20.00	Taxus cuspidata aurea	3.50	25.00
Cotoneaster conspicua	3.00	20.00	Taxus cuspidata capitata	3.50	25.00
decebra	3.00	20.00	Taxus cuspidata	3.50	22.50
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Cotoneaster horizontalis	3.00	20.00	F. & F. compacta	3.50	22.50
perpusilla	3.00	20.00	Taxus media	3.50	22.50
Cotoneaster microphylla	3.00	20.00	Taxus media browni	3.50	22.50
glacialis	3.00	20.00	Taxus media clifforti	3.50	22.50
Cotoneaster microphylla	3.00	20.00	Taxus media Halloran	3.50	22.50
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Euonymus alatus	3.00	20.00	Taxus media henryi	3.50	22.50
compactus	3.00	20.00	Taxus media hicksi	3.50	22.50
Ilex cornuta burfordi	3.00	20.00	Taxus media	3.50	22.50
Ilex crenata helleri	3.00	20.00	Moon's columnaris	3.50	22.50
Ilex crenata hetzi	3.00	20.00	Taxus media Vermeulen	3.50	22.50
Ilex crenata	3.00	20.00			
Kohl's fastigiata	3.00	20.00			
Ilex crenata	3.00	20.00			
microphylla	3.00	20.00			
Ilex crenata	3.00	20.00			
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Ilex opaca Arden	4.00	30.00			
Ilex opaca Hedge Holly	4.00	30.00			
Ilex opaca Hookstraw	7.00	60.00			
Ilex opaca	5.00	40.00			
Judge Brown	7.50	65.00			
Ilex opaca Miss Helen	7.00	60.00			
Ilex opaca mascula	5.00	40.00			
3-in. pots, 8 to 12 ins.	3.00	20.00			
Ilex pernyi Brilliant	3.00	22.50			
Juniperus depressa	3.00	20.00			
Juniperus glauca hetzi	3.00	20.00			
Juniperus horizontalis	3.00	20.00			
Bar Harbor	3.00	20.00			

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Strains of Broad-Leaved Evergreens

stated that the plants must be given reasonable care. It was reasonably certain they had not received it.

One had barely returned to the office when the customer phoned. The neighbors must have kindly reported the visit. What was going to be done about that dead and dying stock? One suggested that it had not been well cared for. That did it! "The stuff was not any good to begin with, and if you don't do something about it, I will buy my nursery stock somewhere else and so will my neighbors."

One finally manages to break in long enough to tell him that one will replace the stock. Whatever the reason for the decision, it will cost—and one will have to charge it to overhead.

TREE BARK INTEREST

[Continued from page 11]

Ulmus parvifolia provides a mottled effect of green, white to light gray and tan. It is decidedly different from the coarser bark of Ulmus pumila. Illustration I is a study of the main trunk of the Chinese elm, and illustration J shows the Siberian elm main trunk. The result of elm wetwood is pictured in illustration J. The light area indicates where the flux ran down the trunk.

Cork Tree

The gray, corky bark of the Amur cork tree (Phellodendron amurense) is truly different from the bark of most other trees. If one presses a finger against any part of the larger stems and main trunk, he has a definite sensation of feeling cork. Illustration L shows the woven ridges on a stem five inches in diameter, and illustration M portrays a coarse, broad-ridged bark that is really spongy on the trunks of trees 16 or more inches in diameter.

Immediately inside the large lenticled bark of young stems there is a bright yellow coloration. There are many interesting bark textures and colorations to see when one observes the Amur cork tree at close range.

One of the most interesting sights during early to late May (the time is dependent on the geography) is the production of flowers on the main stems of American redbud (Cercis canadensis). Developed directly within the bark are flower buds which produce the small, pea-like, lavender-pink flowers. The attraction is even more interesting when one observes the white-flowering form (Cercis canadensis Alba). The white flowers are truly attrac-

FIELD-GROWN LINING-OUT STOCK

Transplanted stock grown in open field beds.

	Each 100 rate	Each 1000 rate		Each 100 rate	Each 1000 rate		Each 100 rate	Each 1000 rate
Abies concolor (Concolor Fir)			Juniper, glauca hetzi (Hetz Juniper)			Spruce, Norway (<i>Picea excelsa</i>)		
4 to 6 ins., 4-yr., T.	\$0.15	\$0.12	4 to 6 ins., 2-yr., T.	\$0.20	\$0.18	5 to 10 ins., 4-yr., T.	\$0.15	\$0.06
6 to 8 ins., 5-yr., T. ....	.20	.18	6 to 10 ins., 2-yr., T. ....	.25	.22	10 to 12 ins., 4-yr., T. ....	.20	.12
8 to 15 ins., 5-yr., T. ....	.35	.30	8 to 12 ins., 2-yr., T. ....	.32	.28	12 to 15 ins., 4-yr., T. ....	.25	.18
Azalea mollis (Chinese Azalea)			10 to 15 ins., 2-yr., T. ....	.35	.30			
5 to 8 ins., 3-yr., T. field	.25	.22	12 to 15 ins., 3-yr., T., etbk.	.45	.42			
6 to 12 ins., 4-yr., T. field	.35	.32	12 to 18 ins., 4-yr., T., etbk.	.55	.50			
Azalea mucronulatum , lavender								
6 to 8 ins., 3-yr., T. ....	.35	.30						
8 to 12 ins., 3-yr., T. ....	.40	.35						
Azalea poukhanensis , mauve								
4 to 6 ins., 4-yr., T. ....	.35	.32						
6 to 10 ins., 4-yr., T. ....	.40	.36						
Buxus sempervirens welleri								
(Weller's Hardy Boxwood)								
6 to 8 ins., 2-yr., T. ....	.30	.28						
8 to 10 ins., 3-yr., T. ....	.35	.32						
10 to 15 ins., 3-yr., T. ....	.45	.42						
Chamaecyparis filifera aurea								
(Golden Thread Cypress)								
6 to 10 ins., 3-yr., T. ....	.35	.32						
8 to 12 ins., 3-yr., T. ....	.42	.38						
Chamaecyparis lawsoniana allumi								
(Blue Cypress)								
6 to 8 ins., 2-yr., T. ....	.30	.28						
8 to 12 ins., 2-yr., T. ....	.45	.42						
10 to 15 ins., 3-yr., T. ....	.55	.50						
Chamaecyparis plumosa aurea								
(Golden Plum Cypress)								
6 to 8 ins., 2-yr., T. ....	.30	.28						
8 to 10 ins., 3-yr., T. ....	.35	.32						
10 to 15 ins., 3-yr., T. ....	.45	.40						
Chamaecyparis squarrosa								
(Blue Moss Cypress)								
4 to 6 ins., 2-yr., T. ....	.25	.22						
6 to 8 ins., 2-yr., T. ....	.32	.28						
Euonymus fortunei coloratus								
(Prostrate Evergreen Creeper)								
Low growing.								
6 to 10 ins., 2-yr., T. field	.28	.25						
8 to 15 ins., 3-yr., T. field	.35	.30						
Euonymus fortunei erectus								
(Evergreen Big-leaved Winter Creeper)								
6 to 10 ins., 2-yr., T. ....	.25	.22						
10 to 15 ins., 3-yr., T. ....	.35	.32						
12 to 18 ins., 3-yr., T. ....	.42	.38						
Euonymus radicans vegetus								
(Evergreen Winter Creeper)								
6 to 10 ins., 2-yr., T. ....	.35	.32						
10 to 15 ins., 3-yr., T. ....	.45	.42						
12 to 18 ins., 3-yr., T. ....	.55	.50						
Fir, Douglas (<i>Pseudotsuga douglasii</i>)								
6 to 8 ins., 4-yr., T. ....	.25	.22						
8 to 10 ins., 5-yr., T. ....	.28	.25						
10 to 15 ins., 5-yr., T. ....	.35	.30						
Hex crenata (Pyramidal Japanese Holly)								
3 to 6 ins., 1-yr., T. ....	.25	.22						
8 to 12 ins., 2-yr., T. ....	.35	.32						
10 to 15 ins., 3-yr., T. ....	.42	.38						
12 to 18 ins., 4-yr., T. ....	.48	.42						
Hex crenata convexa (Bullata)								
8 to 10 ins., 2-yr., T. ....	.38	.35						
10 to 15 ins., 2-yr., T. ....	.45	.40						
12 to 15 ins., 3-yr., T. ....	.55	.48						
12 to 18 ins., 5-yr., field, cutback	.90	.75						
Hex crenata helleri , very dwarf								
6 to 8 ins., 4-yr., T. ....	.45	.42						
8 to 10 ins., 4-yr., T. ....	.75	.65						
10 to 12 ins., 5-yr., T., heavy	.90	.75						
Hex crenata hetzi , large glossy leaf								
6 to 10 ins., 2-yr., T. ....	.35	.30						
10 to 15 ins., 3-yr., T. ....	.45	.40						
12 to 15 ins., 4-yr., T. ....	.55	.48						
heavy, cutback	.65	.48						
Hex rotundifolia (Round-leaved Holly)								
8 to 10 ins., 2-yr., T. ....	.35	.30						
10 to 12 ins., 3-yr., T. ....	.40	.35						
12 to 15 ins., 4-yr., T. ....	.50	.45						
12 to 15 ins., 5-yr., T. ....	.55	.48						
heavy, cutback	.65	.60						
Juniper, Andorra (Purple Andorra)								
8 to 10 ins., 3-yr., T. ....	.40	.38						
10 to 15 ins., 3-yr., T. ....	.50	.45						
Juniper, canadensis aurea								
(Golden Canadian Juniper)								
6 to 8 ins., 2-yr., T. ....	.35	.32						
8 to 10 ins., 2-yr., T. ....	.45	.42						
Juniper, chinensis pfitzeriana								
6 to 8 ins., 2-yr., T. ....	.30	.28						
8 to 10 ins., 2-yr., T. ....	.45	.40						
10 to 15 ins., 3-yr., T. ....	.50	.45						
Juniper, hibernica fastigiata								
(Compact Irish Juniper)								
4 to 8 ins., 2-yr., T. ....	.20	.18						
8 to 10 ins., 2-yr., T. ....	.25	.22						
10 to 12 ins., 2-yr., T. ....	.35	.30						
12 to 15 ins., 3-yr., T. ....	.45	.40						

Lining-out Stock, 25 at the 100 Rate, 300 at the 1000 Rate.

TERMS: Free packing for cash with order, otherwise 1/3 deposit with order and balance C.O.D. Packing at cost. All shipments by railway express. Write for our complete price list.

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(We are not open Sundays)

(31 mi. north of Pittsburgh, Pa., on Rte. 19)

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TAXUS CAPITATA •

**Seedling
Grown**



	Each Per 100
18 to 24 ins.	\$4.25
2 to 2 1/2 ft.	5.25
2 1/2 to 3 ft.	6.25
3 to 3 1/2 ft.	7.50

F. O. B. Fairview, Pa.

Can supply in full trailerloads.

25 sold at 100 rate.

5% cash discount if paid in advance or on delivery.

FAIRVIEW EVERGREEN NURSERIES, INC.

Phone: GR 4-5712

Fairview, Pa.

tive when contrasting with the black bark; illustration N can be used as test.

The Chinese redbud (*Cercis chinensis*) which is shrubbier, also develops an abundance of lavender-pink flowers, but on lighter gray to light tan young branches. The latter is not so reliably hardy as the American species.

OPPOSE N.Y. BILLBOARDS

The board of directors of the New York State Nurserymen's Association has endorsed efforts by the state department of public works to control billboard construction on expressways and arterial routes of the state. According to Edward Kirk, Albany, executive secretary of the nurserymen's association, the action was taken at a meeting of the board in the Block hotel, Angola. At the same time, the group passed a resolution urging Gov. Nelson Rockefeller to establish a commission which would take steps to improve the natural beauty of the state.

G. T.

MR. AND MRS. L. W. KARNES, Karnes Landscape Service, Marshalltown, Ia., are building a garden shop there. They will occupy the building in time for the Christmas selling season.

SOUTHERN NURSERY is the new firm name style for the former Southern Gardens Nursery, at Tampa, Fla.

Plant Quality Nursery Stock

Seedlings and Transplants

- Pines • Firs • Spruce • Hemlock
- Christmas Tree Stock • Nut Trees
- Ornamentals • Flowering Trees

Send for price list or call
Hopkins 5-5696



Pikes Peak Nurseries

Quality Nursery Stock For More Than 35 Years

801 Water St.

Indiana I, Pa.

SCOTCH PINE

Perfect Landscape Material

	Each
2 to 3 ft., B&B.	\$ 4.50
3 to 4 ft., B&B.	6.00
4 to 5 ft., B&B.	8.00
5 to 6 ft., B&B.	11.00
6 to 8 ft., B&B.	15.00

LEAVENWORTH NURSERIES

L. C. Gatewood Betty Gatewood
12th and Vilas
Leavenworth, Kan.

BLOODGOOD NURSERIES

Dept. American Nursery Co.

R. D. 1 Doylestown, Pa.

Established 1790

Growing a general line of nursery stock.

Specializing in shade and ornamental trees.

Serving the Wholesale Trade

CANADIAN HEMLOCK and BALSAM FIR

Northern-Grown

	Per 100	Per 1000
3 to 6 ins., S.	\$ 3.00	\$ 17.50
6 to 9 ins., S.	5.00	30.00
9 to 12 ins., S.	9.00	70.00
12 to 18 ins., S.	12.50	100.00
18 to 24 ins., S.	30.00	....

Freshly collected. Well rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, evergreens on request.

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Charlotte, Vt.

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Spruce — Fir
Pine

Finest Selection
in the East

SHEERLUND FORESTS

R. D. I Reading, Pa.

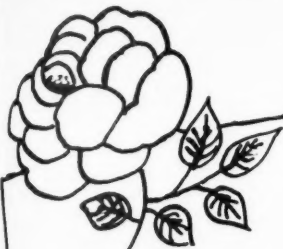
JIM FEENEY'S NURSERY

Bustleton Pike above Street Rd.
Feasterville, Pa.

These plants are fine specimens—tightly sheared and B&B, F.O.B. Feasterville.

Y E W S

	Cuspidata hicksi	Intermedia hatfieldi	Brevifolia
12 to 15 ins.	\$1.00	\$1.50	\$1.75
15 to 18 ins.	1.50	2.00	2.25
18 to 24 ins.	2.00	2.50	2.75
24 to 30 ins.	2.50	3.50
3 to 4 ft.	4.00



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WESTERN MAINE Forest Nursery Co.



Growers of hardy, guaranteed-to-live

TRANSPLANTED EVERGREENS

	Per 1000
American Arborvitae, 4-yr. transplants (2-2), 5 to 10 in.	\$ 70.00
Balsam Fir, 5-yr. transplants (2-3), 8 to 12 in.	80.00
Balsam Fir, 4-yr. transplants (2-2), 4 to 7 in.	70.00
Douglas Fir, 4-yr. transplants (2-2), 5 to 8 in.	70.00
Fraser Fir, 4-yr. transplants (2-2), 4 to 6 in.	70.00
Mugho Pine (dwarf), 4-yr. transplants (2-2), 3 to 6 in.	80.00
Red Pine, 4-yr. transplants (2-2), 6 to 10 in.	65.00
Scotch Pine (Austrian Hill), 4-yr. transplants (2-2), 15 to 20 in.	65.00
Scotch Pine (French Highlands), 3-yr. transplants (2-1), 4 to 8 in.	60.00
Scotch Pine (South Sweden), 3-yr. transplants (2-1), 4 to 8 in.	60.00
Scotch Pine (Spanish), 4-yr. transplants (2-2), 12 to 18 in.	65.00
White Pine, 4-yr. transplants (2-2), 6 to 12 in.	75.00
Black Hills Spruce, 5-yr. transplants (2-3), 6 to 12 in.	80.00
Colorado Blue Spruce, 5-yr. transplants (2-3), 6 to 12 in.	135.00
Norway Spruce, 5-yr. transplants (2-3), 8 to 15 in.	75.00
Norway Spruce, 4-yr. transplants (2-2), 5 to 10 in.	65.00
White Spruce, 5-yr. transplants (2-3), 10 to 15 in.	75.00
White Spruce, 4-yr. transplants (2-2), 6 to 12 in.	65.00
SEEDLINGS (Not Guaranteed)	
Douglas Fir, 4-yr. seedlings (4-0), 5 to 10 in.	30.00
Scotch Pine (South Sweden), 3-yr. seedlings (3-0), 8 to 15 in.	20.00
Colorado Blue Spruce, 4-yr. seedlings (4-0), 5 to 10 in.	40.00
White Spruce, 2-yr. seedlings (2-0), 3 to 5 in.	20.00
(All three and four-year seedlings root-pruned)	

Terms
Cash with order; or one-half cash with order, balance C.O.D. All prices F.O.B. Fryeburg, Maine, net; no discounts, 250 trees of any one kind and size at the 1000 rate. For less than 250 of one kind, ask for retail price list. No extra charge for boxes or packing.

Our Guarantee
90 PER CENT OF ALL TRANSPLANTS SOLD at regular wholesale prices as quoted in this list are guaranteed to live. Replacements will be made free of charge for any losses in excess of 10 per cent of the number purchased, provided we are notified of such losses by October 1, 1962. (Seedlings not guaranteed.)

If they are grown in Maine they will grow anywhere.
Write or phone for complete list of stock.



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Dept. AN 921

WESTERN MAINE Forest Nursery Co.



Harry Eastman
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ROSES

Central Pennsylvania Grown
2-yr.-old, field-grown plants.
Hybrid Teas—Floribundas—Climbers

EVERGREENS

Landscape Material
Twice transplanted, regularly sheared.
Young, salable evergreens for cash-and-carry trade of garden shops, roadside markets and nurseries.

Write for wholesale price list.

SHADE'S NURSERY

624 Colonial Club Dr.
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Phone: Harrisburg, KI 5-5417
5 miles east of Harrisburg on U. S. Rt. 22, turn north at Inn 22; nursery 1 mile north of U. S. Rt. 22.

BROAD-LEAVED EVERGREENS

Low-priced, Medium-sized, High-quality
LANDSCAPE STOCK
Azaleas, Ilex, Ligustrum and others—
growing at our Holly Creek Nursery,
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64 pages, 3000 names, 25¢ per copy
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100 Acres of Choice Nursery
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Taxus Magnolia
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Azalea Viburnum

All Sizes
All Stock Certified for
Western Shipment
Write for Price List

TAXUS CAPITATA

Each
900, 3 to 3½ ft. \$7.25
600, 3½ to 4 ft. 8.25
Liberal discounts on quantity lots.

We also have premium
Scotch Pine Christmas trees.

W. A. SWIFT NURSERY

R. D. 5 Greenville, Pa.

OBITUARY

Henry Bellows Chase

Henry Bellows Chase, one of the organizers and a former president of Chase Nursery Co., Inc., Chase, Ala., died August 21 at the age of 91. Born in Maine, he first followed two older brothers to North Carolina; a fourth brother joined them there, and shortly thereafter all went to Alabama, where they organized the Alabama Nursery Co. at Huntsville, in 1889. In 1906, Henry left this firm, of which he had become secretary, to start the Chase Nursery Co., with which the Alabama Nursery Co. was subsequently consolidated to form the present extensive business conducted at Chase, Ala.

Henry Chase was the last surviving brother of the four who organized the original nursery at Huntsville. He was a familiar figure at many trade meetings and, prior to his death, was the oldest living past president of the American Association of Nurserymen, having served in that office in 1914-15 and on numerous committees. He had also been president of both the Alabama Nurserymen's Association and the Southern Nurserymen's Association. He was the only man ever to be honored with a lifetime honorary presidency of the Southern Nurserymen's Association.

Active in civic as well as trade affairs, Mr. Chase had served as president of the Huntsville city council from 1916 to 1918; as mayor in 1919 and 1920; as a member of the city board of education from 1937 to 1942, and as a member of the board of directors of the Alabama state chamber of commerce, having been honored as "Man of the Year" in 1960 by that group. For eight years he was a member of the state board of agriculture and industries.

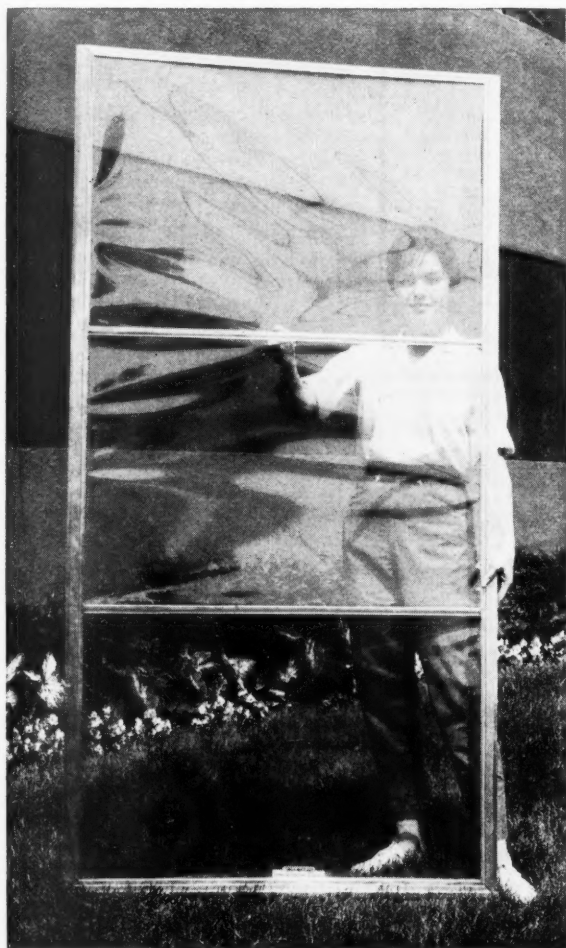
Mr. Chase was a Mason and a Rotarian and he had served as vice-president of the Newcomen Society of England, a scientific, cultural and business organization.

Surviving are three nephews, Henry H., president of the Chase Nursery Co., and Robert C., both of Huntsville, and Richard T., Beech Creek, N. C., and three nieces.

Erich P. Heinrichs

Erich P. Heinrichs, 76, a retired nurseryman, died July 24 while

Here's your **NEW** Improved Model B **HANDIPANEL!**



We are pleased to announce the availability of an improved model of the "Handipanel"—an aluminum frame 39 $\frac{1}{8}$ " x 78" glazed with Mylar®.

The original Handipanel, since introduced, has proven itself in hundreds of installations all over the United States.

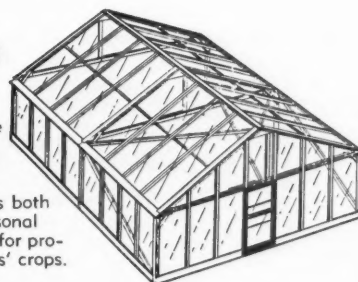
This improved Handipanel employs the use of a rigid Vinyl spline to hold the Mylar to the frame with greater tenacity.

The use of this Vinyl spline NOW ALLOWS THE GROWER TO REGLAZE HIS HANDIPANELS ON THE JOB. Illustrated instructions for reglazing are shipped with each carton of Handipanel.

This improved model has been the result of several years of constant testing and improvement on The Handipanel Idea.

NO. 68 HOUSE

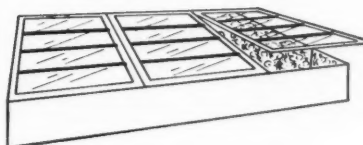
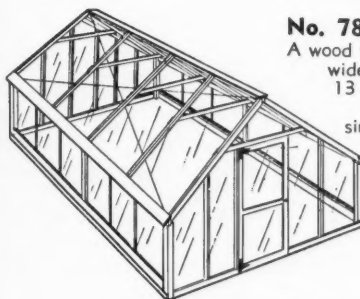
A 24 ft. wide clear span structure built so that the Handipanel on roof and side walls may be installed and removed easily. Offers both year round and seasonal protection. Suitable for production of all florists' crops.



No. 78 HOUSE

A wood frame structure 11 ft. wide built in multiples of 13 ft. 8 in. bays. Primarily intended as a single small plant house.

The removable Handipanel makes this an ideal structure for starting bedding and vegetable plants in early spring.



COLD FRAMES

The light weight of Handipanel makes them ideal for this use. Much easier to handle when ventilating and removing than the conventional wood and glass frames which cost approximately 40% more.

Plans for the above available upon request.

These light weight, yet durable panels are ideal for covering the roof and sides of a greenhouse. Their extreme light weight (only four pounds for a 21 square foot sash) makes the task of applying or removing the roof an easy one. A 100 foot house can be covered or uncovered in roughly one hour. Thus, a

house covered with Handipanel is ideal for production of plants which require only seasonal protection. If not in use during the summer, these panels can be stored out of the sun and will last considerably longer.

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BURFORD HOLLY

Beautiful sheared specimens to 8 ft.
Available in quantity
also —

Ilex convexa
Ilex crenata

Ilex helleri
Ilex microphylla

Ilex opaca femina
Ilex rotundifolia

White Dogwood
Hornbeam
Shoosmith Juniper

Willow Oak
Flowering Crab Apples
Japanese Live Oak

Specimen material • Trailer truck delivery

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TAXUS**

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ARBORVITAE

JUNIPERS

SHRUBS

TREES

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JOS. A. HREN NURSERIES

BLACK PINE

LANDSCAPE-SIZE PLANT MATERIALS

Catalog

East Hampton, L. I., N. Y.

Phone: EA 4-0640

QUALITY STOCK GROWN BY US

Roses, Azaleas, Evergreens, California
Privet, Green Barberry, Red Barberry
(fine strain).

Seedlings and transplants.

DANEGER'S HI-WAY NURSERY, INC.

P. O. Box 336 MILFORD, DEL.

SEEDLINGS AND TRANSPLANTS

Pines, Spruces, Firs, Hemlocks, etc.

Write for new price list.

PINE GROVE NURSERY

R. D. No. 3 Clearfield, Pa.

visiting at Braunschweig, Germany. He was the former owner of the Seventh Avenue Nursery, Miami, Fla., and had resided at Miami Beach. Born in Germany, he went to Miami in 1924 after a brief stay in Colorado. Surviving him at Miami is a nephew, Lothar Heinrichs.

Mrs. Arthur L. Watson

Mrs. Arthur L. Watson, co-owner of the Arthur L. Watson Nurseries, Grand Rapids, Mich., died in her sleep August 23, of a heart attack. She was stricken while attending the A. A. N. convention at Washington, D. C., and was hospitalized after her arrival home.

Mrs. Watson attended her first A. A. N. convention in 1926 and missed only two in the past 35 years. She had served the Woman's Auxiliary of the A. A. N. as secretary and vice-president.

Mrs. Watson had taken an active part in the business which she and her husband founded in 1918. She is survived by her husband, Arthur and a daughter, Ardis Waters.

Fred Rudolph

Fred Rudolph, who had operated the Rudolph Nursery at Mobile, Ala., died August 13 in a Mobile hospital. A native of Germany, Mr. Rudolph established his nursery on Moffett road in 1922, but, because of ill health, had been in semiretirement for the past several years. Surviving are his widow, a daughter and two sons.

IOWANS' MEETING

[Concluded from page 13]

given by the Sherman Nursery Co. at the Club Iowa Thursday evening. After dinner, the nurserymen were entertained when several fellow members participated in games.

Friday morning, the Sherman Nursery Co. was host to a ladies' breakfast. The summer meeting adjourned with a buffet dinner at the Club Iowa.

Over 140 nurserymen attended the event from Nebraska, Minnesota, Illinois and Iowa.

GRAND opening of the Waterfall Nursery, 590 South Beach boulevard, La Habra, Calif., occurred August 12. Besides handling nursery stock, the firm will specialize in construction of waterfalls for gardens.

BRATZ NURSERY, on Redding road, Easton, Mass., has been sold, the property being purchased by Mr. and Mrs. Laurence W. Hoyt, also of Easton.

BAIER LUSTGARTEN AZALEALAND NURSERIES

Northern-grown, hardy azaleas, well-budded, sheared, heavy stock, field-grown, excellent foliage, over 200,000 for fall and spring delivery. All B&B.

AZALEA GABLE

Louise Gable (double, pink)	
Rose Greeley (white)	
8 ins.	Each \$1.00
10 ins.	1.25
12 ins.	1.50
15 ins.	2.50
Rose Bud (double, pink)	
8 ins.	1.00
10 ins.	1.25
12 ins.	1.50
15 ins.	2.50
18 ins.	3.50

AZALEA KAEMPFERI

Carmen (large, rose color)	
Fedora (pink)	
Louise (red)	
Othello (brick red)	
Salmon Beauty (salmon color)	
8 ins. ....	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00
30 ins.	6.00
36 ins.	7.50

AZALEA KURUME

Addy Wery (deep vermillion)	
8 ins.	1.00
10 ins.	1.25
12 ins.	1.50
15 ins.	2.50
18 ins.	3.50

Amoena (purple-red)	
Hino-Crimson (crimson)	

Maxwelli (red)	
8 ins. ....	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50

Apple Blossom (shell pink)

Daybreak (light pink)	
Favorite (deep rosy pink)	
8 ins.	Each \$0.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00

Coral Bells (pink)

Polaris (double, white)	
Snow (white)	
8 ins. ....	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00

Hinodegiri (very dark red)

8 ins. ....	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00
30 ins.	6.00
36 ins.	7.50

Orange Beauty (orange)

8 ins. ....	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50

AZALEA VUYKIANA

Beethoven (mauve-lilac, waved petals)	
Johann Strauss (single, rose, blotched)	
8 ins. ....	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50

Ledifolia Alba (white)

Lilacina (fragrant, lilac color)	
8 ins.	Each \$0.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00

Mollis

(pink, yellow and orange)	
12 ins.	1.75
15 ins.	2.00
30 ins.	7.50

Mucronulatum

12 to 18 ins.	2.00
18 to 24 ins.	3.50

SPECIAL

WE ARE GROWING THE NEW, FAMOUS AND VERY HARDY EXBURY HYBRID AZALEAS. THEY WERE ORIGINALLY GROWN ON THE ROTHSCCHILD ESTATE IN ENGLAND AND UNTIL RECENTLY WERE NOT FOR SALE AT ANY PRICE. THEY ARE THE SUPERIORS OF ALL DECIDUOUS AZALEAS.

Ready for fall, 1961, in limited quantities only.

5-yr., 18 ins. \$3.50

Berry Rose	J. Jennings
Brazil	Knighthood
Firefly	White Swan
Gibraltar	Hotspur
Ginger	Aurore
Hugh Wormald	Cecile

AZALEA

Pontica Narcissiflora ,	
18 ins., B&B	\$3.50
Pontica Daviesi ,	
18 ins., B&B	3.50

Rooted cuttings of all above varieties ready November 1. \$50.00 per 1000.

1-yr., T., \$125.00 per 1000.

Our azalea beds are treated for shipment outside Japanese Beetle zone.

BAIER LUSTGARTEN

Jericho Turnpike, Middle Island, L. I., N. Y.

Phone: Yaphank 4-3444

Long Island's Largest Nurseries

WRITE FOR CATALOG

THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

ACID FERTILIZERS AID AZALEAS IN SOME SOILS

The Delaware-Maryland peninsula has long been known as a nursery center for the commercial production of azaleas. Paradoxically enough, there are sections of this area that have soils unfavorable to growing azaleas and most other ericaceae. The difficulty does not arise from the presence of limestone, as is the trouble in parts of Ohio, Kentucky and elsewhere, but rather from the marine origin of the soil. This soil, having been heaved up from its former immersed position, contains a certain amount of residue from marine life. This is calcareous in nature.

Even the areas that are unfavorable to growing azaleas vary from a somewhat tolerant sandy loam to a heavy soil known as white oak. This latter looks like a gray adobe mud and, surprisingly, is quite fertile. Its name arises from the fact that giant white oak trees are often found growing in the area having this soil. The soil situation can be complicated still further by the presence of old oyster shell piles, some of Indian origin, which have been incorporated into the soil.

The county in which my firm's nurseries are located contains such a range of soils. As a result, we have not, over the years, laid much emphasis on growing azaleas. We grow only a few to satisfy a modest demand; by using slat shade, peat moss and aluminum sulphate, we were able to grow satisfactory plants. We noted, though, that plants sold to customers usually grew backward—the foliage becoming smaller and turning yellowish. A drought would usually finish them. This, of course, was not true of the customer who was a good gardener, but the homeowner who planted his plants, watered and cultivated them occasionally and then forgot them, consequently losing them.

The introduction of the acid fertilizers, usually termed azalea-camellia fertilizers, seems to have changed the picture considerably. Now it seems to be possible for azaleas to be grown in nurseries in basically unfavorable soils without too much struggle and for the customer to

gain satisfaction from them. Proper applications of the acid fertilizers will maintain normal plant growth and color and will readily return plants to normal appearance if they should go off color.

Various Species Helped

We have not tried rhododendrons in our nurseries, but one of our customers made an extensive planting this spring. At our suggestion, he allowed for good drainage, applied humus, fertilized the plants, planted them in shade and watered them once a week. The plants made 6 and 8-inch shoots; the foliage is a good, dark green, and only a plant or two show any signs of venation that is not normal.

Similar results are possible with andromeda, leucothoe and other ericaceous plants. The customer, to grow these successfully, will have to realize that, while growing them is possible, the plants must have regu-

lar attention. The treated soil will be altered continuously by alkalinity leaching in from the surrounding areas. The drinking water of the area may cause trouble, too, for much of it contains magnesium.

Several years ago, we started growing some *Azalea mollis*, because it was supposed to be not so exacting in the acid soil requirements. However, with ordinary shrub fertilizers we noted considerable chlorosis in the plants. The addition of azalea-camellia fertilizer improved the color of the foliage, and the growth of the young shoots was often as much as 12 inches.

I do not know if these fertilizers will correct conditions on true limestone soils, but on moderately unfavorable soils they seem to be highly successful.

APPOINTMENT of Lawrence A. Post as a staff member at its azalea division, Wilmington, Del., has been announced by Vosters Nurseries & Greenhouses, Inc., Secane, Pa.

RIVERSIDE NURSERY, Sweet Home, Ore., has been traded by its owners, Mr. and Mrs. Lloyd White, to Mr. and Mrs. Leo Egg for a motel at Depoe Bay, Ore.

CONTAINER-GROWN STOCK

Ready Now

We have 50,000 container-grown plants for immediate sale.

Also complete list of B&B and lining-out stock for fall, 1961, shipment.

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VERKADE'S NURSERY, INC.

P. O. Box 336

New London, Conn.

Phone: GI 3-4406



**HARDY NATIVE
FERNS, WILD FLOWERS
TREES, SHRUBS and EVERGREENS**

Write for Wholesale Catalog

ISAAC LANGLEY WILLIAMS
Box AN Exeter, N. H.

**DECIDUOUS AND EVERGREEN
TREES AND SHRUBS**

Outstanding assortment.

Write for Wholesale Price List.

LOVETT'S NURSERY, INC.
LITTLE SILVER, N. J.

PARMENTIER'S ROSES

119 Grady St. Bayport, L. I., N. Y.
Phone: BAyport 8-0811

*Nursery Price List
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COVER ILLUSTRATION

Picea Maximowiczii

Picea maximowiczii, the Japanese bush spruce, is found growing to well over 80 feet in its native range, but as a cultivated ornamental evergreen seldom exceeds 50 feet and usually matures at less. Hardy in zone 4 and parts of zone 3, this species develops a rather bushy head, formed on a framework of horizontal branches somewhat ascending at the ends. Specimens in the parks at Rochester, N. Y., are now about 30 feet high and a little less in spread, after 40-odd years in agreeable locations; growth has slowed down considerably over the past 15 years, and it is doubtful if these specimens will attain a height of much more than 40 feet during



Foliage of *Picea Maximowiczii*

their years of usefulness as well-appearing ornamentals.

The branchlets of *Picea maximowiczii* are smooth, yellowish to reddish brown and foliated with rigid, sharply pointed, dark green needles. While the branches are well supplied with branchlets, giving them a bushy appearance, the tree is not densely branched, and the crown could well be described as loosely pyramidal in contour. The common name, bush spruce, better applies to the lack of height, relative to width, than to the woody structure of the plant.

There are many spruces and other conifers better-looking than *P. maximowiczii*, which are rightly preferred choices, but the hardihood and good-looking dark green of this species make it a useful tree where exten-

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THE TANKARD NURSERIES
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sive background or screen plantings are indicated, and it serves well in the pinetum at Durand-Eastman park.
J. G.

PENNSYLVANIA OUTING

The summer meeting of the Pennsylvania Nurserymen's Association was held at the Pocono Crest hotel, Pocono Pines, Pa., August 23. At a meeting of the executive committee the preceding evening reports were submitted and approval of the program for the annual meeting at Pittsburgh, Pa., January 23 and 24 was expressed.

While the executive committee met, the ladies attended a performance of "Oh Mistress Mine" at the Pocono Playhouse, as guests of Allen E. Deal, of Blue Ridge Soil Pep Co., Inc., White Haven, Pa.

During an unexpected rain, 150 members registered in the morning, representing 65 firms. Many members brought their families to spend a few days in the mountains to relax and enjoy swimming, golfing and the beautiful scenery. Accommodations at the hotel were pleasant and the food was delicious.

The morning was given to visiting, and in the afternoon, in spite of the rain, the party divided into two groups, one going to the peat moss bogs of Blue Ridge Soil Pep Co., Inc., on Skytop mountain, and the other viewing the Bear Creek dam, recently completed by United States army engineers as a flood control project. This dam, approximately 200 feet high, is the largest earth dam east of the Mississippi river.

The day ended with a special dinner at the hotel.

O. Leon Gonzalez.

MIDWEST BONSAI SHOW

The third annual midwest bonsai show staged August 18 to 20 at the D. Hill Nursery Co. retail display area at Dundee, Ill., suggested the stimulus that has been given to interest in this horticultural specialty in the array of varied competitive entries from a wide area and the large attendance of viewers. The latter totaled about 12,000 for the show period, in spite of inclement weather at times.

Hill's staged the entries attractively on long tables, with appropriate backgrounds, on a sloping area back of its big sales corner at the intersection of Routes 31 and 72 at Dundee. A large sign announced the event to passers-by, and notices of the affair were sent to various

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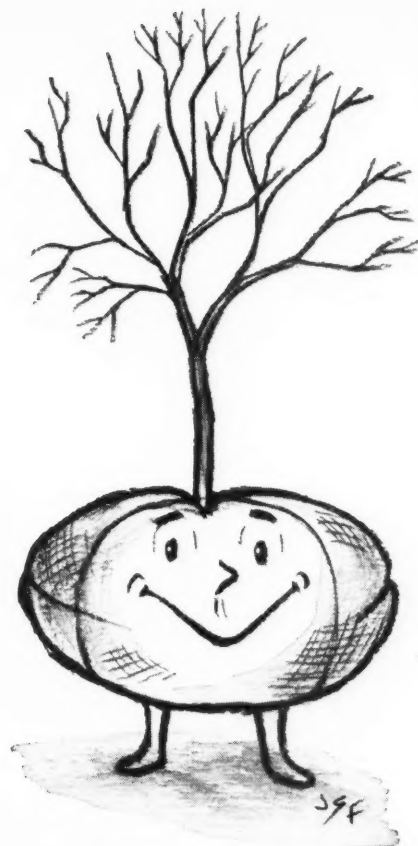
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	Each
2 to 3 ft.....	\$2.50
3 to 4 ft.....	3.50
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In lesser quantities we have **Red, Austrian and Mugho Pine**. We have a limited number of **Limber, Japanese Red and Japanese Black Pines** and a very few **Austrian and Red Pines** up to sixteen ft. tall. These can be seen by appointment. We ship only in New England.

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We also have very large quantities of liners to offer in sizes from rooted cuttings and grafts up to 3 and 4-yr.

Verkade's Nurseries, Inc.
Wayne, N. J.

news distributing agencies. Kaneji Domoto, nationally famous bonsai expert and landscape designer from New Rochelle, N. Y., demonstrated bonsai art to crowds daily. An authentic tea ceremony was staged in a garden patio three times Saturday, with geisha girls taking part.

Near the competitive displays were tables holding some of the semifinished bonsai specimens that Hill's offers chiefly to the trade for finishing or for resale to customers wishing to indulge in the hobby. These plants were mainly junipers, pines and spruce, in keeping with the evergreen specialty of the firm. Imported bowls in variety, along with stones, prepared soil, fertilizer and wire, are also supplied by the nursery to the do-it-yourself group who take up bonsai. George Gay, a member of the Hill staff, gives lectures on bonsai to various groups, some of which have formed bonsai divisions.

Added interest for the show visitors was the firm's permanent Oriental garden in the modern style, which has been enlarged this year. Arthur Hill's collection of bonsai plants, about a dozen choice specimens, was again a feature.

NEW FREESTONE PEACH

Budwood of Redtop, a new freestone peach variety, has been released to nurserymen by the United States Department of Agriculture. This peach has been tested primarily in California, but its developers believe it might do well also in some other peach-growing areas.

Redtop ripens about three and a half weeks before Elberta. The fruit is high in quality and almost round; the flesh is yellow, firm and of fine texture. The new peach is good for canning, freezing and fresh market sales.

When grown to maturity in California, Redtop peaches have an attractive bright red color over three fourths of the skin surface. However, in Georgia and Maryland tests this variety produced fruit with a duller red color.

Redtop is the result of a cross between Sunhigh and an open-pollinated seedling of July Elberta made at Beltsville in 1948. Seedlings were grown and selected at Fresno, Calif. Information on sources of this budwood may be obtained from John H. Weinberger, United States horticultural field station, Fresno, Calif. A few trees will be available to growers from nurserymen in the fall of 1961. U. S. D. A. has no trees for distribution.

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PLANT NOTES HERE AND THERE

By C. W. Wood

The Primrose

The use of the word "primrose" in gardens is so inexact that it has lost any special significance. As it is used here, it refers to the best loved of all primulas, the species formerly known as *Primula acaulis*, but now called *P. vulgaris* by many botanists. That makes it rather confusing to gardeners, who are further mystified by the fact that primrose is sometimes used as an all-inclusive term for the entire genus, while European gardeners, especially those of Great Britain, usually restrict it to *P. vulgaris*, or *P. acaulis*, as one prefers.

What prompted these observations was a note that I recently found in one of my field books of 1929. It had reference to a few plants, grown from seeds received from Dr. Lempberg, of Austria, marked *P. acaulis*, Austrian form. The plants were smaller in all their parts than ordinary *acaulis* forms, the flowers being not over one-half inch across and the flowering stems about half the usual height, and the crumpled leaves were mere knobs.

Although I did not make positive comparison with other kinds as to flowering period, I do remember that it is one of the earliest and would probably bloom about the first of the year in the south and follow the sun northward. It reminds me that it and the other precocious ones would be excellent items in southern neighborhood nurseries. I am also convinced that most neighborhood growers would find the investigation of primroses a pleasant and profitable job.

Lupinus Ornatus

A Wisconsin reader who recently inquired about *Lupinus ornatus* described a plant growing only six inches tall. It is not likely that his plant is type *L. ornatus*, though it conceivably could be a mountain form of it. There is much confusion in the names of western lupines, and it takes a trained botanist to find his way among them.

I find reference in the literature to a dwarf (the type is said to reach three feet in height) form of *L. ornatus*, but it never came my way. If there is a dwarf form of it, the plant, in its silvery stems and leaves,

should be highly ornamental throughout the open year. And for a long time in summer it should be doubly attractive, because of its dark blue and whitish (a whitish spot on the standard) flowers.

The type was not permanent in my trials, whether from my ignorance of its cultural needs or a more or less general tendency to short life in the genus, I do not know. It is said to need a light, rich soil in full sun. It came readily from spring-sown seeds in my trials, blooming the second year.

Pityrogramma Triangularis

I have had more fun with the names of the west coast gold fern, *Pityrogramma triangularis*, than

with the plant itself. And that does not mean the plant is not worthy of attention, either. I know it under four different names, and that is probably not the end of the matter. So let us call it the California gold fern and let it go at that.

But limiting it to California is not exactly correct, for I had it from British Columbia, and I understand that its range extends into Alaska. It is the only gold fern that can be grown in the open in the north, so far as I know, the balance of the clan being of tropical origin and therefore fit only for indoor culture.

I hope the foregoing will answer some of the questions asked by a Delaware reader. The rest of his in-

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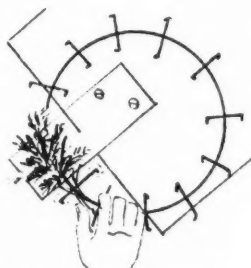


Anyone can operate a Hillman Wreath-Making Machine thereby reducing the need for experienced labor. Here is the answer to the problem of meeting heavy demands for the Christmas Season. Wreaths, Roping, Sprays, Crosses and Grave Blankets can all be made the Hillman way.

HOW TO INSTALL THE WREATH MACHINE

1. Make sure the connecting rod is straight up and down.
2. Foot pedal must touch the floor before the jaws are completely closed.
3. Adjust the cams on the sides of the jaws so that the clip fits snugly.
4. Adjust the jaws when you use a different size clip.
5. Oil moving parts occasionally.

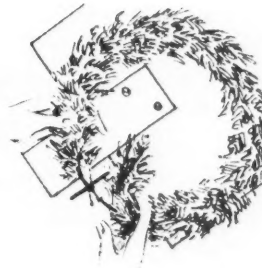
To Make a Wreath — Follow these Instructions



Step 1. Place clip of ring into jaws of machine. Place greens into clip and step on foot pedal to close clip over greens.



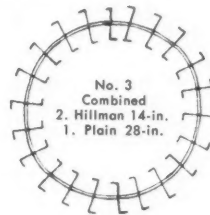
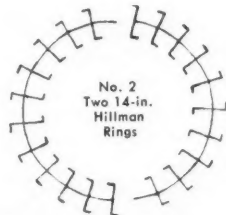
Step 2. Repeat same operation as you move clockwise. The amount of greens in each clip depends on whether the wreath is light or heavy.



Step 3. To finish wreath, lift first handful of greens with right hand and place last bunch of greens into last clip with left hand. After closing clip allow first greens to fall into place.

Instructions for Extra Large Wreaths

Any size wreath up to 6 feet can be made. See illustrations 1, 2 and 3.



1. Cut Hillman rings with wire cutter and place under plain ring.
2. Complete one section with Hillman ring at a time.

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3. In making sprays, skip every other clip.
4. In making crosses, skip one section where greens cross.

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2½ to 3 ft.	3.75
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4 to 5 ft.	6.75

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2½ to 3 ft.	3.00
3 to 3½ ft.	3.50
3½ to 4 ft.	4.00
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24 to 30 ins.	3.25
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Taxus Intermedia Berryhilli

15 to 18 ins.	4.00
18 to 24 ins.	5.25

Taxus Media Gem

15 to 18 ins.	3.75
18 to 24 ins.	4.50

Arborvitae, Dark Green American

3 to 4 ft.	3.25
5 to 6 ft.	5.50

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3 to 3½ ft.	2.90
3½ to 4 ft.	3.25
4 to 5 ft.	3.60
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3 to 3½ ft.	3.50
3½ to 4 ft.	4.00

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quiry may be answered by saying that it makes a splendid garden plant for dry soil in part shade, with its pretty gold-backed, dark green fronds to 10 inches in length and half that in width. Certainly, we of the eastern states can use all of that kind of plant material that we can get hold of.

Corydalis Angustifolia

Regular readers of this column probably have noticed that I seldom mention a corydalis here. Although the genus is one of my favorite plant groups, corydalis has made something of a bad name for itself because of the short life of many kinds. There are a few species, however, permanent enough to suit most gardeners. And I believe that *C. angustifolia* will qualify for that role, though I find two references in my notes that it disappeared from my plantings after two or three years for unknown reasons. Anyway, I believe it worth a trial for anyone interested in these fumitories.

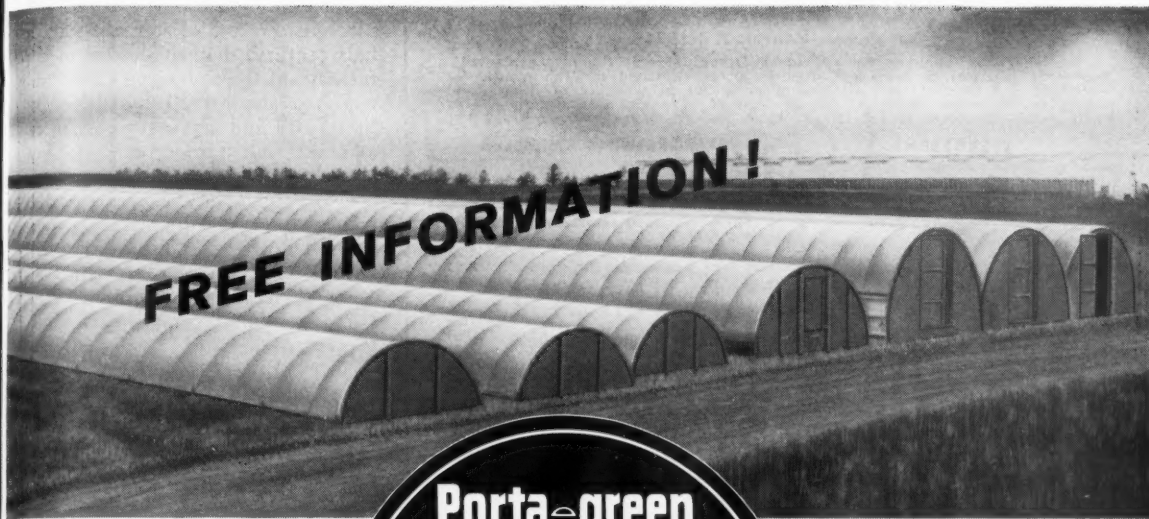
Botanists list approximately 100 species of corydalis, and I doubt not that every one could be used to advantage somewhere in the garden. The little Caucasian, *C. angustifolia*, is a case in point: "Biterately divided," is the botanists' way of saying that each leaf is cut into two sets of leaflets; in this case, each set consists of three leaflets, pale glaucous green in color, producing a truly lovely, ferny picture in the landscape. The long-spurred fumitory flowers, in loose racemes, at the top of 6-inch stems, are, in their creamy to flesh color, splendidly complementary to the blue-green leaves.

In northern Michigan, it comes into flower within a month of the passing of winter, adding a pleasing note to the early spring scene. It goes dormant in summer, so must be placed where its disappearance will not be noticed or some provision is made for covering its passing. As it seems to prefer quite deep shade (deciduous), it is perhaps best to ignore its defection.

Of course it is well to give it a spot where the returning spring sun will caress it into activity at the earliest possible moment. It may be that it is not reliably hardy in my severe climate, but I cannot be positive. It comes readily from seeds.

Daffodil Picador

I should like to call attention to a daffodil, Picador, which has long held my affection and which, I feel sure, will please any nurseryman's daffodil customers. For a small



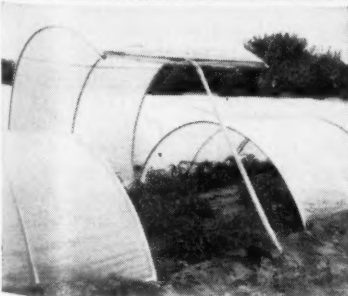
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cupped daffodil to hold a prominent place in the lists of specialists for a half century, it must possess merits far beyond the average. Picador, introduced about 1910, has done just that; yet, I find that many gardeners, amateur and professional, do not know it exists.

It is a small thing (about 15 or 16 inches tall) that will find many spots in the landscape to display its small flowers, white in color, with an orange-banded, green-centered cup. It is also a late bloomer, which adds to its garden value.

Day Lily Melotone

Anyone who likes day lilies in subdued tones, as I do, is likely to find a new favorite in the Sass introduction, Melotone. It is difficult to describe its color with exactness. One time I look at it, it registers old gold; another time, it may be buff yellow; always it has a pinkish tinge that makes it a delightfully different day lily for the lover of soft shades. Melotone has sufficient substance to make it useful as a cut flower, and its height of three feet will delight admirers of tall day lilies.

Clematis Crimson Star

When I saw the glowing description of Clematis Crimson Star in the catalog of its introducer three or four years ago, I wondered if it could be as good as the praise pictured it. Really good red clematises are not plentiful; so when I am told that a new variety is sparkling red, with no trace of the purple that tinges the popular Mme. Edouard Andre and other reds, I am likely to think that the introducer has let his enthusiasm run away with his usual good judgment.

However, I bided my time until I had observed the flower myself. Then I realized that here, indeed, is a splendid addition to the list of climbers. Other points in its favor, in addition to its color, are flower production from June to September, flowers to seven inches across and growth to eight feet in height—all of which adds up to a plant that will surely add much to summer gardens.

The Kaffir Lily

A North Carolina reader asks for some comments on the Kaffir lily, Schizostylis coccinea, especially as to its hardiness and use as a cut flower. I am sorry that I cannot give him definite information on either point, because the only way it can be handled in the north is in pots; however, I remember a friend in southwestern Ohio telling me years ago that he grew it in a deep frame on

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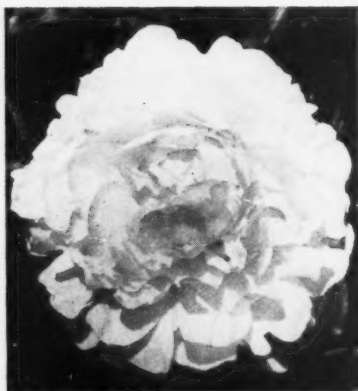
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Mme. Jules Dessert, (9.4). Creamy-white, late midseason.....	5.00	45.00
Mary Brand, (8.7). Clear crimson, midseason.....	6.50	60.00
Mons. Jules Elie, (9.2). Light rose-pink, early.....	4.50	40.00
Reine Hortense, (8.7). Very large, midseason, rose-pink.....	4.00	35.00
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Therese, (9.8). Old rose-pink, midseason.....	6.50	60.00

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PIONEERS IN HOLLY

the south side of his greenhouse and used the cut flowers from late October through most of November. I do not recall how he handled the plants after flowering ceased. When I grew them in pots, I fed them well after blooming, so that they would build up a strong root system for the next flowering.

The Kaffir lily is a member of the iris family, with bright crimson flowers, to two inches across, borne in spathes, on stems to two feet in height. There is a variety, Mrs. Hegarty, with pretty pink flowers. When grown in pots, they should be divided every second year, and I suspect that outdoor culture would require division at least every third or fourth year, for the fleshy roots soon become a tangle. They seem to prefer a moderately light soil.

Chrysanthemum Yellow Avalanche

I was thinking recently about chrysanthemums for northern gardeners, and the old variety Avalanche came to mind. It has made many a northern gardener happy with its early September blooming. It was only natural, of course, for my thoughts to turn from Avalanche to a later comer, Yellow Avalanche. And I find that it has not been mentioned in this column—a condition that will be corrected now.

If you know the original Avalanche (you probably do if you have grown hardy chrysanthemums for any length of time, because the late and lamented firm of Dreer introduced it many years ago), you will no doubt embrace its sport, Yellow Avalanche, with joy. It has the same big, shaggy flowers of the cream-centered, white parent, though in this case the color is a lovely, soft yellow.

Its early September blooming season will further endear it to gardeners in the north who have to meet an early frost line, and in more temperate sections it will help to bridge the gap between some of the earlier-flowering cushion varieties and the main croppers of October and November.

Impatiens

I have been experimenting with impatiens from seeds as a crop for the neighborhood grower and have reached the conclusion that the plant offers some opportunities for profit both as a bedding plant and as a pot plant, especially for winter flowering in a sunny window.

It is impossible to set down rigid rules for handling impatiens for either purpose, because the rules

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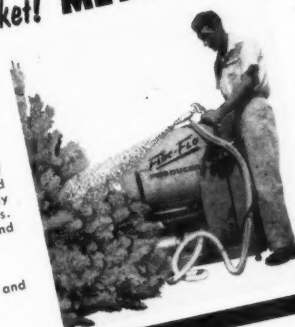
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COLORADO BLUE SPRUCE Bed run as to color		
(3-1), 6 to 12 ins.	10.00	40.00
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removed and every blue
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XX, 9 to 12 ins.	35.00	
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would vary widely with different weather conditions. It might be well to add, however, that in my own experiments in northern Michigan, I found it best to start seeds into growth in June and make cuttings in early August when I was working for pot plants for winter blooming.

There are many strains on the market, varying from dwarfs to plants reaching close to two feet. Choose the one, or ones, best suited to your purpose. There are some segregates, some of which you may find useful in your area, or you may select one of the good mixed strains, covering a wide range of good colors from white through myriad shades of pink to reds and purples. In any case, the rewards are almost certain to be great under ordinary care, with sun in winter and part shade in summer.

Mariposa Lilies

A Pennsylvania reader asks if it is safe for him to plant mariposa lilies in a customer's garden and still remain a friend. Yes, I believe the correspondent is safe if he instructs his client to follow a rather rigid schedule.

Whenever I commence to think or write on this subject, some pleasant memories are brought up, together with not a few rather painful ones. The latter were all brought about by lack of knowledge of the plant's growth habits. As soon as I found that it was the alternate freezing and thawing that brought disaster to them, it became apparent that they should be planted as late in autumn as the soil can be worked, so that top growth will not be made until spring, and that the bulbs should be dug up as soon as the plants are dormant after flowering. If the correspondent will follow that program and instruct his client to do so, I am sure that their mariposa lilies, globe lilies and others of the clan will put on satisfactory performances for several years.

PLANT PROPAGATORS

[Continued from page 12]

influence on races of plants. For example, southern tree sources produce seeds of Chinese elm that are not hardy. There is now a northern source of the Chinese elm, *Ulmus pumila*, which is proving satisfactory. There are also three strains of European larch.

The hardness of the seeds was declared to be due to their physical make-up. Seeds must be ready for germination, and external factors must be ideal. He said white pines



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Burk Juniper, 6 to 10 ins.10
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Pfitzer Juniper, 6 to 10 ins.07
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Plant on right received one tablespoonful of "Uramite". This plant will sell faster and bring a better price. Note larger leaves and improved compactness, compared with the conventionally fertilized plant on left.

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Nitrogen is the most important single element in your fertilization program. "Uramite" ureaform fertilizer releases nitrogen to your stock at the slow, steady rate that assures healthy, sturdy growth and vitality. It's odorless, clean, free-flowing and easy to apply. To make sure all your nursery stock, indoors and out, gets the nitrogen it needs, apply Du Pont "Uramite".



The second row was sprayed with "Kloben". It is weed-free and will not have to be hand-hoed or cultivated. No danger of mechanical injury from cultivation or weed overgrowth in wet weather.

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Control chickweed, crabgrass, lamb's-quarters and other weeds and grasses in such plantings as arborvitae, forsythia, honeysuckle, juniper, privet and yew with Du Pont "Kloben" neburon weed killer. "Kloben" eliminates the danger of mechanical injury from hoeing or cultivation. And weed elimination reduces dieback of lower branches, assuring more symmetrical growth.



This young apple tree is not saleable now because it has been severely damaged by rabbits. One application of "Arasan" 42-S, costing a few pennies, would have protected this investment.

3. Protection from deer and rabbits with Du Pont ARASAN® 42-S

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Stop animals from damaging your stock. Apply Du Pont "Arasan" 42-S repellent to fruit trees, ornamentals, shrubs and other field plantings. "Arasan" 42-S is easy to apply, either with a brush or as a spray. One application will keep gnawing animals at bay for three to six months.

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Juniperus chinensis Armstrongi (3) C Armstrong Juniper

A showy semi-erect Conifer with a symmetrical closely-knit habit of growth. Very appealing with its attractive light green foliage having an excellent lacy texture.

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A NEW, exciting vase-shaped form of Juniper with attractive arching branches that are covered with a lush green foliage. A wonderful grower with many uses in the landscape.

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A very hardy Juniper with an appealing semi-erect habit of growth. A light frosty blue foliage covers the slightly spreading form and creates a delightful sight for the landscape.

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* Number following description refers to minimum temperature "Hardiness Guide." See pages 46 and 47 of your MN General Catalog.

Juniperus chinensis pfitzeriana aurea (4) C Golden Tip Pfitzer

The showy gray-green foliage is splashed with a rich golden yellow glow. A wonderful addition to any planting is this colorful spreading Juniper.

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in Illinois have adapted to shorter winters than white pines from Minnesota. He also reported on the factors affecting seed germination, such as afterripening, dormancy and seed coat.

Concerning plant hardiness, Mr. Bergh said that the fall freezes are the most damaging and that northern plants generally slow down growth in the fall and so avoid damage, while this is not often true of plants from southern sources. Different species have their own seed peculiarities. In conclusion he declared that the answer to the question stated in his topic was yes and that it is important to know the source of one's seeds.

Storing Softwood Cuttings

The last address of the afternoon session, given by Rodney Bailey, propagator at the Bailey Nurseries, St. Paul, Minn., was "Overwintering of Softwood Cuttings under Controlled Temperature." Mr. Bailey stated that rooted cuttings, which were formerly transferred to the field, at the Bailey Nurseries, are now allowed to mature naturally in the rooting beds until November, when they are put in polyethylene bags or rolled up in polyethylene sheets. No packing is placed on the roots. Approximately 300 plants are placed in a bundle, and the bundles are refrigerated at a temperature of 33 to 34 degrees Fahrenheit until spring planting time. Results have been excellent with all deciduous material handled at the nursery, fungus growth presenting no problem while the plants are held at this low storage temperature.

The "Plant Propagator's Question Box" was held Thursday evening, with Richard Van Heiningen as moderator. Several members of the organization showed slides of plants and propagation methods before questions submitted during the meetings were discussed. This has become a well-known and highly interesting part of the annual program, and questions lasted for two and a half hours.

Viburnums Discussed

Dr. L. C. Chadwick, Ohio State University, was moderator for the last morning's discussion. The first speaker of the day was Dr. Ronald R. Egolf, of the National Arboretum, Washington, D. C., with a talk on "Noteworthy Viburnums." Dr. Egolf mentioned that the viburnums are a diversified group, with plants in the eastern and western hemispheres and over 175 species. Many of these have not been introduced to this



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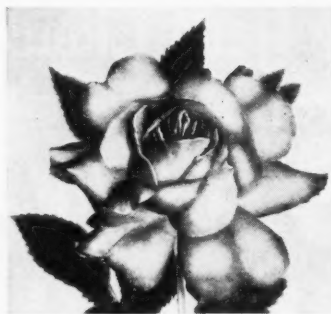
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country at the present. Dr. Egolf covered the problems in seed germination, stating that many viburnum seeds need a warm treatment followed by a cold treatment for best results. He also recommended that asexual reproduction be used, to reduce the confusion in varieties in the trade and perpetuate the better strains. Dr. Egolf mentioned, too, that viburnum is an adaptable genus; some can be used in moist soils, while others are adapted to dry, shady areas. While the usual pH suggested for viburnums is 6 to 6.5, *Viburnum acerifolium* adjusts to very low pH.

The growth forms of viburnums are extremely variable within the species, ranging from low, compact plants to tall, open, spreading or even tree forms. Dr. Egolf had a mimeographed descriptive list of the cultivated viburnums, which he distributed to the members, and showed an interesting series of color slides on viburnums.

"Propagation of *Sciadopitys verticillata*," by Dr. Sidney Waxman, of the plant science department, University of Connecticut, Storrs, was the next program feature. Dr. Waxman stated that the umbrella pine is a good plant, introduced in 1862 but still rare in the trade. In propagation by seeds the umbrella pine is slow for the first three or four years. Layering has been suggested for propagation of this plant; no information on this is available. Grafting of umbrella pine has also been mentioned in literature, but Dr. Waxman was doubtful of its success.

Propagation by cuttings is difficult, as *sciadopitys* is not easy to root. A student, working at the University of Connecticut, obtained 100 per cent successful results on cuttings stuck March 31. This technique was repeated at other seasons with the same good results. In closing, Dr. Waxman stated that for best results cuttings should be taken from good plants in late March or early April. It is desirable to use Hormodin No. 3 and a wounding technique. The medium should be 60 per cent peat and 40 per cent perlite, under mist.

Weed Control

Dr. Chadwick was also moderator for the panel discussion that followed on chemical weed control. Dr. Ken Alban, department of horticulture, Ohio State University, the first member of the panel to speak, recommended steam as one of the best old methods still being used today. Of the chemical sterilants, Dr. Alban stated that formaldehyde is



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6 to 10 ins.	4.00	30.00
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6 to 8 ins.	4.00	25.00
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3 to 5 ins.	6.00	40.00

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6 to 8 ins.	15.00	110.00
4 to 6 ins.	12.00	90.00
Black Hills Spruce		
8 to 10 ins.	18.00	125.00
6 to 8 ins.	15.00	100.00
4 to 6 ins.	12.00	80.00
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10 to 14 ins.	12.00	100.00
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4 to 6 ins.	15.00	125.00
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poor in its weed control. Allyl alcohol requires a large volume of water for good control. Tear gas is difficult to handle, and results are generally poor with the use of terrachlor. Vapam gives good weed control with right conditions; however, a large volume of water is needed with its use. Crag Mylone gives fair weed control. Eptan gives good results on vegetable crops. Methyl bromide at two pounds per hundred square feet has given good control.

Dr. Alban stated that the physical condition of the soil and the amount of moisture present are important factors in obtaining weed control. The use of granular chemicals was mentioned, and it was brought out that the distribution of these materials is important.

The speaker recommended in many cases the elimination of noxious weeds before planting is done and suggested the use of Dowpon for quack grass and Johnson grass; mixtures of Dowpon and amino triazole also gave good results, he said. He recommended eliminating weed seed sources from fence rows and roadways within the nursery areas.

In conclusion, Dr. Albans said that one cannot guess in the use of chemical weed control. Materials that may be safe with one crop are not necessarily safe with others. Testing should be done before large quantities of a chemical are used.

Pre-Emergent Controls

Dr. W. E. Chappell, department of plant physiology, Virginia agricultural experiment station, Blacksburg, Va., the next member of the panel, showed slides with his discussion. He said that for pre-emergent weed control it is necessary that there be some activity of the plants. Slides showing treatment of azaleas — Dinitro at nine pounds per acre in the fall — gave good results, as did Chloro IPC. The timing of the application is highly important. He also showed tests with several new chemicals that are not available today but show promise for pre-emergence weed control on established grasses.

John Newhouse, Bagatelle Nurseries, Huntington Station, N. Y., was the final member of the panel to speak. He stated that mechanical weed control methods are rapidly being replaced by chemicals. Mr. Newhouse urged that the recommendations by the various chemical companies be followed specifically. He stated he is using Simazine exclusively in his nursery. Five ounces of 80W to 30 gallons of water gives

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Hemlock		
2 to 3 ft., B&B.	3.00	2.75
3 to 4 ft., B&B.	3.75	3.50
Hetz Juniper		
18 to 24 ins., B&B.	2.15	2.00
24 to 30 ins., B&B.	2.50	2.25
Pfitzer Juniper		
18 to 24 ins., B&B.	2.25	2.00
24 to 30 ins., B&B.	2.75	2.50
Andorra Juniper		
18 to 24 ins., B&B.	2.25	2.00
24 to 30 ins., B&B.	2.75	2.50
Greek Juniper		
3 to 4 ft., B&B.	2.00	1.75
Irish Juniper		
3 to 4 ft., B&B.	2.00	1.75
Elegantissima Arborvitae		
3 to 4 ft., B&B.	2.75	2.50
Globe Arborvitae		
12 to 15 ins., B&B.	1.50	1.30
15 to 18 ins., B&B.	1.75	1.50
18 to 24 ins., B&B.	2.50	2.25
White Spruce		
4 to 5 ft., B&B.	4.50	4.25
5 to 6 ft., B&B.	5.25	4.75

TREES

Sweet Gum		
4 to 5 ft., B&B.	2.25	2.10
Mountain Ash		
6 to 8 ft., B.R.	2.50	2.00
Silver Maple		
6 to 8 ft., B.R.	1.50	1.10
White Ash		
6 to 8 ft., B.R.	2.00	1.75
Canoe Birch		
6 to 8 ft., B.R.	2.50	2.25
Magnolia soulangiana		
3 to 4 ft., B&B.	3.75	3.50
Magnolia rustica rubra		
3 to 4 ft., B&B.	3.75	3.50

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NOTICE

As a special introductory offer to new customers if your first order from us consists of a full truckload, we will make free delivery up to 200 miles. Limit of one free delivery to a customer. Additional orders will be delivered at your expense.

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Arborvitae, Globe
Arborvitae, Pyramidal
Chamaecyparis, Golden
Ilex Rotunda
Juniper, Andorra
Juniper, Golden
Juniper, Pfitzer
Taxus Cuspidata
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\$12.50 per 100

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Evergreens Seedlings
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NOT 1... NOT 2 BUT 3 Big Star Rose Profit-makers FOR 1962



CHRISTIAN DIOR Profit from the first red All-America Award Winning H. T. in 9 years. Christian Dior, the most magnificent red rose in the world today, is sure to be a "sell out" for you. And once your customers have seen their Christian Diors growing and blooming . . . have seen the perfect bud form; the vivid red red bloom; the sturdy, beautiful rich green bush, they'll be back to re-order. And they'll rave, too, about how Christian Dior's red actually grows brighter under artificial lighting in the home; how excellent they are for cutting; and how the color remains a good "living" red color throughout the life of the rose. (Meiland.) Pl. Pat. 1943.

WAR DANCE Double your profit from the sales of WAR DANCE . . . a rose so exquisitely formed you'd swear it was hand carved; so rich, so deep of color you'd think it was made of the finest, richest velvet. War Dance is a true grandiflora producing loads of blooms . . . but blooms large enough to be compared with hybrid tea blooms . . . each bloom a good 4½ inches across. The War Dance bush is vigorous. Thick, heavy growth and large, deep green leaves make it a handsome plant to beautify every garden. (Swim.) Pl. Pat. 2017.



INVITATION Triple your profits with INVITATION, a rose that produces big, glorious, robust blooms (up to 5 inches across) of rich salmon-orange. Invitation is so exotic it just had to be complemented by a rare fragrance. It has just that . . . a rare spicy fragrance that lingers like the rarest of perfumes. Add to this a sculptured bush with wax-green leaves and you have one of the outstanding new roses introduced in the past decade. It's a real show-rose . . . one your customers will recommend to their friends. (Swim & Weeks.) Pl. Pat. 2018.



ORDER EARLY...

these new Star Garden Roses are already known and wanted by your customers through the biggest advertising push ever made by The Conard-Pyle Company and the All-America Rose Selections . . . order these and many other famous rose introductions now for your dormant and potted rose sales next spring. Large 4-color wall poster and other sales aids sent with each order—FREE! ORDER NOW FROM YOUR GROWER or write for complete wholesale catalog to

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The Conard-Pyle Co.

WEST GROVE 220, PENNA.

Plant these MONEY- MAKERS

BEAUTY BUSH

Kolkwitzia amabilis

2-yr., 9 to 12 ins.

\$ 15.00 per 100

\$125.00 per 1000

RED-LEAVED SMOKETREE

Selected seedlings

6 to 9 ins.

\$ 17.50 per 100

\$150.00 per 1000

NEWPORT NURSERY CO.

Newport, Mich.

**WEST COAST
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DRESDEN BROCADE
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PINK FRAGRANCE

Best Bet for 1962 — our
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MIRACLE (Plant Pat. No. 1863)

The Amazing
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good results. This practice has been followed for two years.

Dr. L. C. Chadwick concluded the morning's discussion with a series of slides showing the work on weed control at Ohio State University. He, too, stressed the importance of following the recommended rates for use of various materials and said there is still much testing to be done.

Exhibitors' Symposium

The afternoon session featured the speaker-exhibitor symposium, led by Tony Shammarello, A. M. Shammarello & Son Nursery, Cleveland, O. The first speaker of the afternoon was Dr. John Mahlstedt, department of horticulture, Iowa State University, Ames, who spoke on "Forcing, Growing and Marketing Ornamentals in a New Peat Container." Dr. Mahlstedt showed a 6x9-inch peat pot with a polyethylene jacket and reported on the testing of this pot for the planting of roses. Chrysler Imperial rose was used with various media with good results. He preferred using a light soil mix with peat and perlite and stated that this large peat pot was satisfactory for three months. Dr. Mahlstedt also had some plastic containers that were made up from insulating materials available in California experimentally; these containers look promising at the present time.

Albert Lowenfels, Willow Lake Farm, White Plains, N. Y., gave a resume of the "Mist Regulating Devices," reporting on both the old and the new methods that have been used. Mr. Lowenfels displayed early electronic leaf devices in addition to the newest equipment for automatic mist control.

"Germination of Double-Dormant Seeds" was reported by Albert Fordham, of the Arnold Arboretum, Jamaica Plain, Mass. Dr. Fordham had slides showing the propagation procedure and results with davidia, dove tree. Seeds of golden-rain tree treated with acid only gave germination immediately. Dr. Fordham had color slides and charts showing the various treatments used on the seeds having double dormancy, which included *Viburnum sargentii* flava and *Chionanthus retusa*. Seeds having double dormancy first require a warm temperature, next a cold treatment and then another warm treatment. He also showed slides of his method of labeling and keeping records of his seeds and methods of storing seeds in refrigerators during the cold treatment.

This discussion concluded the

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Colorado Blue Spruce	Per 1000
4-yr., T., 9 to 18 ins.	\$90.00
4-yr., T., 5 to 9 ins.	72.00
2-yr., S., 4 to 8 ins.	24.00
Norway Spruce	
4-yr., T., 8 to 16 ins.	65.00
4-yr., T., 5 to 8 ins.	45.00
2-yr., S., 4 to 8 ins.	20.00
White Spruce	
4-yr., T., 10 to 18 ins.	60.00
4-yr., T., 5 to 9 ins.	32.00
Black Hills Spruce	
5-yr., T., 9 to 14 ins.	80.00
4-yr., T., 4 to 9 ins.	60.00
3-yr., S., 4 to 8 ins.	30.00
Concolor Fir	
4-yr., T., 5 to 10 ins.	98.00
4-yr., T., 3 to 5 ins.	70.00
Blue Douglas Fir	
5-yr., T., 10 to 16 ins.	65.00
4-yr., T., 7 to 12 ins.	50.00
2-yr., S., 4 to 8 ins.	22.00
Gray Douglas Fir	
4-yr., T., 12 to 20 ins.	75.00
3-yr., S., 7 to 12 ins.	38.00
White Pine	
4-yr., T., 5 to 12 ins.	60.00
2-yr., S., 4 to 8 ins.	20.00
Balsam and Fraser Fir	
3-yr., S., 4 to 8 ins.	28.00
Scotch Pine (Spanish Sierra or French Auvergne)	
5-yr., T., 14 to 18 ins.	70.00
3-yr., T., 7 to 14 ins.	50.00
2-yr., S., 8 to 12 ins.	20.00
Scotch Pine (Austrian Hills)	
4-yr., T., 12 to 16 ins.	49.00
2-yr., S., 8 to 12 ins.	20.00
Austrian Pine	
4-yr., T., 12 to 16 ins.	68.00
3-yr., T., 6 to 10 ins.	48.00
2-yr., S., 4 to 6 ins.	20.00

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MON.-TUES., SEPT. 25, 26, 9:31 A.M.

FIELD-GROWN LANDSCAPE MATERIAL

- 762 Hemlock, Canadian, 30 to 36 ins.
- 142 Hemlock, Canadian, 4 to 4½ ft.
- 35 Hemlock, Canadian, 5 to 6 ft.
- 2468 *Taxus cuspidata*, 15 to 18 ins. and 18 to 20 ins.
- 1469 *Taxus cuspidata*, 24 to 30 ins.
- 40 *Taxus cuspidata*, 30 to 36 ins.
- 1906 *Taxus hicksi*, 15 to 18 ins.
- 1485 *Taxus hicksi*, 18 to 24 ins.
- 229 *Taxus hicksi*, 24 to 30 ins. and 30 to 36 ins.
- 652 *Taxus browni*, 10 to 12 ins.
- 146 Spruce, *Koster Blue* (grafted), 12 to 15 ins.
- 38 Spruce, *Koster Blue* (grafted), 15 to 18 ins.
- 67 Spruce, *Koster Blue* (grafted), 24 to 30 ins.
- 150 Spruce, *Colorado Blue*, 3 to 4 ft.
- 15 Spruce, *Colorado Blue*, 8 to 10 ft.
- 97 Spruce, *White*, 12 to 15 ins.
- 125 Spruce, *White*, 7 to 8 ft.
- 254 Spruce, *Norway*, 12 to 15 ins.
- 125 Fir, *Balsam*, 7 to 8 ft.
- 20 Fir, *Balsam*, 8 to 10 ft.
- 5 Fir, *concolor*, 8 to 9 ft.
- 42 Juniper, *Keteleer*, 30 to 36 ins.
- 268 Juniper, *Pfitzer*, 30 to 36 ins.
- 457 Juniper, *Hetz*, 18 to 24 ins.
- 25 Juniper, *Andorra*, 18 to 24 ins.
- 211 *Arborvitae*, *Woodward Globe*, 18 ins.
- 53 *Magnolia soulangiana*, 4 to 5 ft.
- 286 *Magnolia soulangiana nigra*, 2 to 3 ft.
- 100 Day Lilies, mixed varieties
- 225 Peonies, mixed varieties
- 95 *Mahonia aquifolium*, 18 to 24 ins.
- 180 *Euonymus Sarcocoe*, 15 to 18 ins.
- 325 *Euonymus alatus compactus*, 10 to 12 ins.
- 18 *Euonymus alatus compactus*, 18 to 24 ins.
- 45 *Euonymus erectus*, 18 to 24 ins.
- 5 *Viburnum*, *Leather-leaved*, 3 to 4 ft.
- 159 *Viburnum burkwoodi*, 24 to 30 ins.
- 280 *Viburnum tomentosum mariesi*, 2 to 3 ft.
- 15 *Viburnum carlesii*, 3 to 4 ft.
- 25 Maple, *Japanese Red*, 2 to 3 ft. and 3 to 4 ft.
- 182 *Weigela vaniceki*, 2 to 3 ft.
- 126 *Forsythia Spring Glory*, 3 to 4 ft.
- 74 *Forsythia Lynwood Gold*, 2 to 3 ft.
- 30 *Cotoneaster zabeli*, 2 to 3 ft.
- 35 Dogwood, *Pink*, 3 to 4 ft.
- 20 Dogwood, *Cornelian Cherry*, 18 to 24 ins.
- 84 Dogwood, *White*, 3 to 4 ft.
- 17 Honeysuckle, *zabeli*, 3 to 4 ft.
- 30 Crab Apple, *Flowering*, numerous varieties, 8 to 9 ft.
- 25 Eleyi, 6 to 7 ft.
- 20 Eleyi, 4 to 5 ft.
- 20 Prince Georges, 4 to 5 ft.
- 50 Hopa, 4 to 5 ft.
- 25 Almey, 4 to 5 ft.
- 20 Red Silver, 4 to 5 ft.
- 10 Oak, *Pyramidal English*, 10 to 12 ft.
- 147 Oak, *Shumard*, 6 to 7 ft.
- 100 Oak, *Shumard*, 1½ to 2-in. cal.
- 50 Oak, *Shumard*, 2 to 2½-in. cal.
- 4 Oak, *Pin*, 1½ to 2-in. cal.
- 50 Hawthorn, *Washington*, 7 to 8 ft.
- 13 Plum, *Purple-leaved*, *Newport*, 3 to 4 ft.
- 160 Sweet Gum, 5 to 8 ft.
- 12 Sweet Gum, 1½ to 2-in. cal.
- 16 Maple, *Crimson King*, 1½ to 3-in. cal.
- 12 Maple, *Columnar Norway*, 7 to 8 ft.
- 6 Maple, *Schwedler*, 2 to 3-in. cal.
- 661 Maple, *Silver*, 1½ to 2-in. cal.
- 15 Maple, *Silver*, 2 to 2½-in. cal.
- 75 Maple, *Sugar*, 1½ to 2-in. cal.
- 50 Birch, *European Weeping*, 7 to 8 ft.
- 30 Ash, *Green*, 8 to 10 ft.
- 12 Ginkgo, 5 to 6 ft.
- 35 Linden, *Large-leaved*, 8 to 10 ft.

CONTAINER-GROWN STOCK

- 34 *Mahonia bealei*, 1 gal.
- 15 Holly, *American*, 1 gal.
- 160 Maple, *Japanese Red*, 5-in. pots
- 141 Maple, *Japanese Red*, 1 gal.
- 75 *Viburnum*, *Leather-leaved*, 1 gal.
- 80 *Cotoneaster apiculata*, 1 gal.
- 30 *Cotoneaster adpressa*, 1 gal.
- 34 *Cotoneaster wilsoni*, 1 gal.
- 200 *Pyracantha*, 1 gal.

FIELD-GROWN LINING-OUT STOCK

- 1630 *Taxus cuspidata*, 8 to 10 ins.
- 1680 *Taxus cuspidata*, 10 to 12 ins.
- 1042 *Taxus hicksi*, 8 to 10 ins.
- 125 *Biota aurea nana*, 10 to 12 ins.
- 245 *Biota aurea nana*, 12 to 15 ins.
- 50 Juniper, *Pfitzer Compact*, 10 to 12 ins.
- 328 Juniper, *Pfitzer*, 10 to 12 ins.
- 100 *Viburnum*, *Leather-leaved*, 8 to 12 ins.
- 210 *Boxwood*, *Korean*, 6 to 8 ins.

BEDDED LINING-OUT STOCK

- 2500 *Taxus browni*, 6 to 8 ins.
- 700 *Taxus cuspidata*, 6 to 8 ins.
- 500 *Taxus cuspidata*, 10 to 12 ins.
- 350 *Taxus hicksi*, 8 to 10 ins.
- 120 *Taxus thayeri*, 8 to 10 ins.
- 125 *Taxus fastigiata capitata*, 6 to 8 ins.
- 3500 *Taxus*, mixed varieties, 4 to 6 ins.
- 1300 *Boxwood*, *Korean*, 4 to 6 ins.
- 600 *Boxwood*, *sempervirens*, 6 to 8 ins.
- 50 Holly, *American*, 15 ins.
- 200 Crab Apple, *Flowering* (grafted), mixed varieties, 10 to 12 ins.

POT-GROWN LINING-OUT STOCK

- 4000 *Boxwood*, *sempervirens*, 6 to 8 ins.
- 950 *Boxwood*, *sempervirens*, 8 to 12 ins.
- 2250 *Boxwood*, *Korean*, 4 to 6 ins.
- 150 *Boxwood*, *fastigiata*, 6 to 8 ins.
- 600 Ivy, *Baltic*, 2¼-in. pots
- 6000 *Taxus hicksi*, 4 to 6 ins.
- 4430 *Taxus hicksi*, 6 to 8 ins.
- 1490 *Taxus hicksi*, 8 to 10 ins.
- 5700 *Taxus cuspidata*, 6 to 8 ins.
- 2000 *Taxus cuspidata*, 8 to 10 ins.
- 3130 *Taxus browni*, 4 to 6 ins.
- 30 *Taxus Moon's Columnaris*, 2¼-in. pots
- 200 Spruce, *Koster*, 5 to 6 ins.
- 104 Spruce, *Koster*, 6 to 8 ins.
- 117 Spruce, *Koster*, 8 to 10 ins.
- 180 Spruce, *Norway*, 12 to 15 ins.
- 700 Spruce, *Norway*, 12 to 15 ins.
- 260 Juniper, *Pfitzer Compact*, 6 to 8 ins.
- 100 Juniper, *hetzi glauca*, 6 to 8 ins.
- 400 *Pachysandra terminalis*, 6 to 8 ins.
- 100 *Euonymus erectus*, 4 to 6 ins.
- 100 *Euonymus vegetus*, 4 to 6 ins.
- 400 *Euonymus Sarcocoe*, 4 to 6 ins.
- 300 *Viburnum tomentosum mariesi*, 10 to 12 ins.
- 150 *Weigela vaniceki*, 8 to 10 ins.
- 100 Dogwood, *White*, 10 to 12 ins.

POT-GROWN LINING-OUT STOCK — Continued

- 175 *Cotoneaster adpressa*, 8 to 10 ins.
- 250 *Cotoneaster apiculata*, 8 to 10 ins.
- 350 *Cotoneaster divaricata*, 8 to 10 ins.
- 350 *Mahonia aquifolium*, 4 to 6 ins.
- 600 *Arborvitae*, *Woodward Globe*, 8 to 10 ins.
- 110 *Magnolia soulangiana*, 8 to 10 ins.
- 75 Maple, *Japanese*, 8 to 10 ins.

ROOTED CUTTINGS IN FLATS

- 8000 *Taxus browni*
- 3750 *Taxus hicksi*

EQUIPMENT — TOOLS

- 50-gal. Meyers portable sprayer, with spray guns, 25-ft. hose and 8-ft. boom attachment
- Lawn rollers
- Wheelbarrows
- Fertilizer spreaders
- Garden hose
- Sprayers
- Sprinklers
- Hand ball trucks
- 50 bamboo mats
- 100 lath frames, 4 to 6 ft.
- 22 rolls of snow fence
- Bamboo stakes
- Flats
- 40,000 clay pots, 2¼ to 3-in.
- Glass sashes
- Lumber
- Hand tools
- Plumbing equipment
- Tools
- Greenhouse—13x50 ft., heating system, boiler, pipe and accessories
- Office and store fixtures
- Display cabinets, shelf and wallboards
- \$1500 garden store inventory

TERMS

One-half purchase price to be paid on day of sale by cash, certified check, cashier's check or personal check when accompanied by letter of guarantee or reference from your bank. Balance due before removal of stock.

All stock to be dug and removed by purchaser within 90 days after sale. Experienced digging personnel will be available to contract your digging if required.

Stock to be sold in wholesale lots of 5, 10, 25, 50 and 100 and by the row and block.

Field-grown stock to be sold September 25, lining-out stock and equipment September 26.

Your inspection and attendance is invited and welcomed. All purchasing firms are entitled to free lunch for one person.

Not responsible for accidents, should any occur.

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Hardy Northern-Grown Stock at WHOLESALE

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afternoon session of the program. The annual business meeting followed, and the annual banquet was held in the evening.

Test Stem Nodule Effects

A report, "The Effect of Nodules on the Rooting of Cuttings of Juniperus and Thuja," gave the results of a test conducted at Michigan State University by Gary L. Wilms and F. L. S. O'Rourke, of the department of horticulture of the university. The test had followed observations made at the Gwenn-Gary Nursery, Columbiana, O., in large-scale production of cuttings that those with nodules on the stems rooted more quickly and produced more roots than those without nodules. The differences were particularly noticeable with cuttings of spiny Greek juniper.

Cutting wood was taken from plants at the Gwenn-Gary Nursery in January, shipped to East Lansing and made into cuttings seven to eight inches in length. Lots of 100 cuttings each, with and without nodules, of three different species were treated with indole butyric acid and set on January 20, 1960, in a greenhouse bench under mist. They were removed on April 10, 1960, and graded into three classes according to the degree of rooting.

The test indicated that rooting of both *Juniperus chinensis* Hetz and *Juniperus horizontalis* plumosus Andorra clones was markedly increased by the presence of nodules on the cuttings, while *Thuja occidentalis* Woodward clones were not affected. It was concluded, therefore, that the effect of nodules varies with the species of evergreen from which the cuttings are taken.

NIGHT LIGHTS SPUR PLANTS

Lights are doing what water and plant nutrients never could to make plants grow at the agricultural experiment station of the University of Connecticut, Storrs. Japanese maple, pink-flowering dogwood and several other plants have made some

Growers of Heavy Landscape Material

Shrubs

Evergreens

Shade Trees

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ORNAMENTALS TREES SHRUBS EVERGREENS

Wholesale growers of a
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The very best in Scotch Pine Christmas
trees come from

Gatewood Christmas Tree Farms

Hart, Mich.

Beautifully Shaped Evergreens

WHITE PINE
SCOTCH PINE

RED PINE
NORWAY SPRUCE

3 to 7 ft., B&B

White-Flowering Dogwood

Single-stem specimen trees and choice
multiple stems. Transplanted, heavy-
matted root systems. 3 to 8 ft.

See classified ad under Evergreens B&B

Wade CHRISTMAS TREE FARMS

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ROSES

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spectacular gains under light treatment in the station's greenhouses.

Dr. Sidney Waxman, assistant professor of ornamental horticulture, who has been breaking up the nighttime darkness with brief but frequent exposures of light, found that an hour or an hour and a half of light distributed in small segments through the night will speed up the growth of dogwood about as much as providing light for it 16 hours each night.

Test Japanese Maple

Japanese maple, normally slow growing, grows half an inch a day under continuous lighting and will grow just as fast with intermittent night light. Under ordinary conditions it grows for only two or three

weeks in a year. In tests at Storrs, Japanese maple grew continuously and reached a height of nine feet in seven months.

Exposing a single stock plant to long photoperiods can produce continuous vegetative growth, making available a constant source of cuttings. The vegetative propagation of new or rare species of woody plants is a slow process. Since such plants are few in number, little stem material is available to make cuttings. The cuttings may be taken only once each year from plants grown under naturally occurring photoperiods.

By continuously exposing the rooted cuttings as well as the stock plant to long photoperiods, a considerable number of plants was obtained in a relatively short period at Storrs. Two

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New 1961 to '62 edition ready. Write for your copy.

SCOTCH PINES

	Per 100	Per 1000	Per 10,000 lots
French Green			
2 to 4 ins.	\$ 3.50	\$10.00	\$ 9.00
4 to 8 ins.	5.00	18.00	16.00
6 to 10 ins.	6.00	20.00	18.00
8 to 12 ins.	8.00	25.00	20.00
5 to 10 ins., TP	8.00	40.00	35.00

Austria Hill

2 to 4 ins.	\$ 3.50	\$10.00	\$ 9.00
4 to 8 ins.	5.00	18.00	16.00
6 to 10 ins.	6.00	20.00	18.00
8 to 12 ins.	8.00	25.00	20.00

Scotch Highland

2 to 4 ins.	\$ 3.50	\$10.00	\$ 9.00
4 to 8 ins.	5.00	18.00	16.00
6 to 10 ins.	6.00	20.00	18.00
8 to 12 ins.	8.00	25.00	20.00

Spanish

2 to 4 ins.	\$ 3.50	\$10.00	\$ 9.00
4 to 8 ins.	5.00	18.00	16.00
6 to 10 ins.	6.00	20.00	18.00
8 to 12 ins.	8.00	25.00	20.00
5 to 10 ins., TP	8.00	40.00	35.00

AUSTRIAN PINE

	Per 100	Per 1000	Per 10,000 lots
2 to 4 ins.	\$ 3.50	\$10.00	\$ 9.00
4 to 8 ins.	5.00	18.00	16.00
6 to 10 ins.	6.00	20.00	18.00
8 to 14 ins.	8.00	25.00	20.00
6 to 10 ins., TP	10.00	50.00	45.00

NORWAY SPRUCE

2 to 4 ins.	\$ 3.50	\$16.00	\$14.00
4 to 8 ins.	4.50	20.00	18.00
6 to 10 ins.	5.00	25.00	22.50
4 to 8 ins., TP	10.00	40.00	35.00
6 to 12 ins., TP	12.50	50.00	45.00

WHITE SPRUCE

2 to 4 ins.	\$ 3.50	\$18.00	\$16.00
4 to 8 ins.	5.00	20.00	18.00
4 to 8 ins., TP	10.00	45.00	40.00
5 to 10 ins., TP	10.00	50.00	45.00

COLORADO BLUE SPRUCE

2 to 4 ins.	\$ 5.00	\$20.00	\$17.00
3 to 6 ins.	6.00	25.00	22.00
4 to 8 ins.	7.00	30.00	25.00
5 to 10 ins.	10.00	45.00	40.00
4 to 8 ins., TP	\$10.00	45.00	40.00
5 to 10 ins., TP	12.50	65.00	60.00

ALSO Black Hills Spruce, Douglas Fir, Eastern Red Cedar, and other varieties. Container-Grown Stock, Ornamentals — all top quality. Write today.

cuttings of dwarf arborvitae in 1957 had produced 1,200 plants by 1959.

Dr. Waxman has obtained responses from abelia, European cranberry bush, creeping juniper, red oak, Chinese dogwood and rhododendrons.

LANDSCAPE GROUP SEES TIME-LAPSE FILMS

John Ott, Lake Bluff, Ill., noted scientist, lecturer and time-lapse photographer of plant and animal life, spoke to members of the Chicago Metropolitan Landscapers Association at International Minerals Corp., Skokie, August 14. Mr. Ott, who began time-lapse photography while still in high school 35 years ago, narrated films taken at his Lake Bluff laboratories. His filming of plants and other subjects is done over a period of weeks, months and sometimes years. The effect on seeing the film is of rapid growth of the subject, be it an apple, a flower or a stalk of corn.

Particularly interested in the growth response of plants and animals to light, Mr. Ott showed how seasonal variations in the angle of the sun, the amount of atmosphere sunlight passes through, as well as the wave lengths of ultraviolet and



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other radiation, affect the growth of his subjects.

One theory now being advanced, he said, is that sunlight filtered through ordinary glass, as well as certain kinds of artificial light, while not harmful in themselves, lacks much of the health-preserving ingredients of natural sunlight. Film strips taken in Mr. Ott's laboratories showed ordinary glass filters out certain elements of sunlight and destroys the reproductive powers of certain plants and retards growth.

Experiments that Mr. Ott has performed on animal cells indicate that natural sunlight may be a factor in preventing cancer in some cases. Mr. Ott said his studies showed that sun-dow glass, as well as some artificial

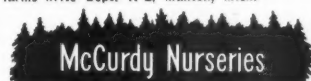
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We have custom planted for others on abandoned farm lands this past season nearly 5 million seedlings, and nearly 1½ million on our own property.

In the past few years we have closely supervised and planted with our own machines nearly 40 million seedlings.

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MANTION, MICH.

light, while not inducing cancer in his subjects, did not prevent cancerous growth as pure sunlight did.

Mr. Ott is presently engaged in research projects with several universities and medical research centers to investigate further the growth response of both plants and animals to light energy. He is the winner of honorary awards from groups as varied as the Chicago Technological Societies, the Chicago Horticultural Society and the American Horticultural Society, and he holds an honorary degree of doctor of science from Loyola University of Chicago. Some of his time-lapse photography, with flowers and fruits as subjects, have been featured by Walt Disney in his "Real Life Adventure" series.



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Azaleas, Ilex
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ABSTRACTS OF RECENT RESEARCH

STUDY CONTROL METHODS FOR PINE-SHOOT MOTH

Delnav, Guthion, malathion, methyl parathion and Trithion gave as good control of the Nantucket pine moth, *Rhyacionia frustrana*, and the European pine-shoot moth, *R. buolinia* as DDT in field tests reported by David E. Donley in the *Journal of Economic Entomology*, volume 53, No. 3.

Tests on the Nantucket pine moth were carried out on short-leaved pines three to nine feet tall located on the Wayne-Hoosier national forest near New Straitsville, O. For tests on the European pine-shoot moth, red pines four to 10 feet tall in the Maumee state forest near Toledo, O., were used. The 18 materials tested were applied with a 3-gallon knapsack-type sprayer, using 45 gallons of water per acre. Treatments were applied to control the early instars of the pests and were timed, with a few exceptions, to coincide with 50 per cent adult emergence. The effectiveness of control was based on damage, determined by the percentage of tips infested on treated and nontreated trees.

From the results of tests in two years (1957, 1958), emulsion formulations containing 12 ounces of Delnav, 12 ounces of Guthion, two pounds of malathion, one pound of methyl parathion or 12 ounces of Trithion in 45 gallons of water per acre gave 90 per cent, or better, control of damage by both species of pine moths. These materials appeared to be as good as or better than a spray containing seven pounds of DDT.

Since the tests were experimental and no information was obtained on the effects of the treatments on associated insects and wildlife, Mr. Donley states that further large-scale tests are needed before recommendations can be made. I.

NEW ELECTRONIC LEAF

G. H. Gering and E. E. Reynaert, Wageningen, Netherlands (Meded. Dir. Tuinb. 22:390-91. 1959) describe a new electronic leaf that will not be affected by the salt deposits that interfere with proper operation of the older models. The new device consists of two platinum electrodes

connected by a piece of black cotton cloth. This cotton cloth can be easily and regularly replaced. The moisture condition of the cotton cloth determines the electrical conductivity, which controls the magnetic valve operating the mist system. C.

MAGNOLIA FROM CUTTINGS

Cuttings may be successfully taken from *Magnolia grandiflora*, according to L. J. Enright, of the University of Maryland (National Horticulture Magazine, 38:53-54). Terminal cuttings six inches in length from current season's growth are suggested, cut one fourth inch below a node. The lower inch of the stem should be slit along two sides. Of hormone treatments tried, a 10-second dip in 2 per cent indolebutyric acid proved most helpful. Cuttings taken at weekly intervals during June showed 82 to 88 per cent rooting in 44 to 47 days. C.

TEXAS CONVENTION

[Continued from page 7]

fect September 1. Appearing before the convention to explain the law and answer questions from the floor concerning it were Robert W. Baker, state senator from Houston, and Alvis Vandygriff and James K. Presnal, Austin, lawyers retained by the T. A. N.

Law Exempts Some Items

The retailer is required to collect the tax on all retail sales over 24 cents, with the exception of some items. Exceptions mainly are food for home use, medicines and agricultural items. Among the exemptions applying to the nursery industry are seeds and fertilizers for agricultural use, topsoil, farm equipment or machinery, work clothes and outer garments costing less than \$10. No landscape nursery nor other type of service business will collect the tax on service or labor, but only on the materials or items furnished the customer, such as plants, fertilizers, insecticides, sprinkler parts and so forth. This is not a per item tax, but a purchase tax, with the 2 per cent figured on the entire purchase.

All firms holding retail store licenses were to be mailed booklets regarding the tax as well as forms by which to apply for certification to collect the tax. Firms not having a retail store license but who will have occasion to collect the tax must write the state comptroller describing their special situation in order to obtain this information and certification. At

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	Each Per 10	Each Per 100
Juniper, Hetz		
15 to 18 ins., B&B	\$1.50	\$1.35
18 to 24 ins., B&B	2.15	2.00
Juniper, Pfitzer		
15 to 18 ins., B&B	1.50	1.35
18 to 24 ins., B&B	2.15	2.00
Juniper, Von Ehrh		
15 to 18 ins., B&B	1.50	1.35
18 to 24 ins., B&B	2.15	2.00
Juniper, Von Ehrh Globe		
12 to 15 ins., B&B	2.50	2.00
15 to 18 ins., B&B	3.00	2.50
Juniper, Spiny Greek		
15 to 18 ins., B&B	1.50	1.35
18 to 24 ins., B&B	1.75	1.50
Juniper, Irish Fastigiata		
24 to 30 ins., B&B	1.35	1.00
30 to 36 ins., B&B	1.50	1.35

	Each Per 10	Each Per 100
Oak, Pin (heavy caliper)		
4 to 5 ft., B&B	\$ 3.25	\$ 3.00
5 to 6 ft., B&B	4.50	4.00
5 to 8 ft., B&B	6.50	6.00
8 to 10 ft., B&B	8.00	7.50
2 to 2½-in. cal., B&B ..	12.00	10.00
Sweet Gum (heavy caliper)		
4 to 5 ft., B&B	3.00	2.50
5 to 6 ft., B&B	4.00	3.50
6 to 8 ft., B&B	5.00	4.50
8 to 10 ft., B&B	8.00	7.50
Pine, Scotch and Red		
24 to 30 ins., B&B	3.00	2.50
30 to 36 ins., B&B	4.00	3.50
3 to 4 ft., B&B	5.00	4.50
Euonymus Sarcocoe		
15 to 18 ins., B&B	1.75	1.50
18 to 24 ins., B&B	2.00	1.85
24 to 30 ins., B&B	2.75	2.25

Shipping: We can arrange truck delivery at 35c or 40c per mile one way. Pool deliveries arranged—prorated. If you prefer to call for your stock, we should have advance notice, so we can have the stock ready.

Terms: 10% discount allowed for cash in advance, 5% at delivery, 2% ten days, 30 days net.

All orders subject to crop conditions and on condition that same shall be void should injury befall our stock from hail, fire, frost, error in count or other cause beyond our control. If any nursery stock proves untrue to name, we hold ourselves in readiness, on proper proof, to replace such nursery stock that may prove otherwise, or refund the amount paid, but we shall in no case be liable for any sum greater than the amount originally received for said nursery stock.

All our Pin Oak and Sweet Gum are well shaped, grown with plenty of space for proper development. Balled and burlapped with proper size ball and treated burlap.

7000 Pin Oak
8000 Sweet Gum

We would especially like for you to visit our nursery and, if you wish, tag your trees. We are on Arkansas Highway 59, north of Siloam Springs—in the northwest part of Arkansas.

225 miles from Kansas City
85 miles from Tulsa
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All evergreens are well grown and sheared heavily to make compact plants. We start the 1961-62 season with the following salable plants in sizes we list:

2500 Hetz
8000 Pfitzer
4000 Von Ehrh
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900 Scotch Pine
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Heavy Shrubs

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Spring, 1962

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Evergreens, Trees
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Our 1961 trade catalog offers a most comprehensive collection of hybrids and species. Copy on request.

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4-in. and 6-in. plastic pots.
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Cherokee Chief Red-Flowering Dogwood
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Dogwoods of Named Varieties
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Wholesale Growers of Dependable
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Cherokee Chief Red-Flowering Dogwood
(Plant Patent No. 1710)
Shade Trees, Flowering Trees, Evergreens, Broad-Leaved Evergreens.

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50¢ AMERICAN HOLLY

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In Plantainer cans — female plants, 3-yr. For pickup before Oct. 14, 1961. Many other container-grown plants and the best varieties of liners, too.

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Taxus cuspidata

15 to 18 ins.	\$2.75
18 to 24 ins.	3.25
2 to 2½ ft.	4.50
2½ to 3 ft.	5.25

Taxus intermedia

Same sizes, same prices as cuspidata.

Taxus hicksi

15 to 18 ins.	2.25
18 to 24 ins.	2.75
2 to 2½ ft.	3.25
2½ to 3 ft.	5.00

These are all heavy plants.

R. L. HAAG NURSERIES
Jeffersontown, Ky.

6 miles east of Louisville.

present no bond is required of those collecting the tax. The retailer remits the tax quarterly to the state and is allowed to retain 1 per cent of the tax collected as recompense for collecting it.

No state retail sales tax is collected on anything sold to a federal, state or local government.

Affects Mail-Order Sales

It is believed that for mail-order sales the sale is made in Texas and not in another state when the purchaser resides outside Texas, so that all mail-order nurserymen would be required to collect the tax on all sales.

The retailer is not required to give the customer a receipt showing how much was collected as tax unless the customer requests such. However, most persons will wish such for federal income tax deduction evidence unless this deduction is worked out by the director of internal revenue on an income bracket formula.

If a nursery or other retail business had a written contract with a customer prior to September 1, the sales tax does not apply to goods covered by that contract. Anything bought on installment or lay-away plans is subject to the tax on the entire purchase price, and the seller is responsible for the tax.

When a retailer sells something at a trade discount, it is necessary that the seller furnish a certificate to show that it was not a taxable sale.

It is a violation of the law to advertise or allude that one will assume the tax in the purchase price.

The senator and attorneys said that, since the tax is new, the state comptroller promulgates it verbatim and no different interpretations can be made until judicial rulings so determine in any test cases which may come before the courts.

Other Legislative Matters

There was also some discussion of a new Sunday closing law, ad valorem taxes, unemployment compensation, the new Texas rose-grading law and wage-hour regulations.

In a case this year at Amarillo, Tex., a judge ruled that nursery products were exempt from ad valorem tax under the agricultural provisions of the law. The city of Amarillo had assessed a nursery there for this tax. The case is now on appeal by the city to a higher court.

A new law regarding Sunday closing was passed by the state legislature to go into effect about mid-November. It is in addition to, not in place of, an older statute regarding Sunday closing. The new law

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Offered in large assortment varieties and sizes, including:

Arborvitae	Julianae Barberry
Junipers	Boxwoods
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We solicit your Want List on truck and car lots

Also offer extensive line of Fruit and Nut Trees, Flowering Shrubs, Shade Trees, Flowering Trees and Hedges.

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CONIFEROUS, BROAD-LEAVED

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Better Liners of the Better Kinds

Good Roots • Good Tops
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Write for Price List
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EVERGREEN GRAFTS POTTED LINERS CONTAINER STOCK

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prohibits the retail sale on Sunday of specific items. Among those sometimes sold by nurseries or garden centers are outdoor furniture; hardware; tools, excluding nonpower-driven tools, and lawn mowers. Each separate sale of a prohibited item on Sunday is considered a violation of the law.

Keynote Speaker

A standing ovation was given Paul Harvey, Chicago, nationally known radio news commentator for the American Broadcasting System, at the conclusion of his timely speech at the keynote luncheon Monday, August 21. He warned that the United States may not survive unless we are willing to wage the cold war as vigorously as we have our "hot wars." We must keep strong to enforce the peace.

We are encouraging juvenile delinquency, he said, by catering to the weak and dependent instead of encouraging the strong and independent, and concurrently we are making the idea of American democracy seem extremely dull to our youth. People, especially youth, rebel out of sheer boredom; they need incentive and challenge. We need to impress our youth that not only is it a wonderful thing, economically, to be an American, but it is also a demanding, dangerous and exciting thing.

The armchair economists may tell you that your industry is facing a recession, that it can expect, for instance, a 10 per cent decline in business. Actually, said Mr. Harvey, that probably means nothing more than that you will have to work 10 per cent harder to do the same amount of business as last year, and not that you are going to do that much less business, no matter what you may do to prevent the drop that is forecast by the economists.

A. A. N. Session

A bachelor luncheon was held for the men Tuesday noon at Moody convention center. For entertainment they heard a humorous talk, entitled "Peckerwoods, Politics and Potlicker," by Cayce Moore, billed as America's No. 1 barbershop philosopher and humorist.

Afterward was held the business meeting of region V of the American Association of Nurserymen. Clark Kidd, Tyler, director for region V, presided. He presented a "Plant America" award for industrial landscaping to the Lambert Landscape Co. for its landscaping of the new Southwest Center office buildings at Dallas. Winston Jones was present

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SPECIAL

One block of 17,500 Taxus, 4-yr., field-grown; 18 varieties, well spaced and carefully sheared, now grading 15 to 18 ins. and up. Two years to remove. If desired, can furnish continued cultivation, trimming and digging. B&B loaded to trucks. Correspondence invited.

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30,000 Taxus, pot-grown, 2 and 3-yr.
15,000 Taxus, well finished, in qt. cans.
5,000 assorted evergreens.

ROOTED CUTTINGS

75,000 Taxus, 2 and 3-yr., flat-grown.
15,000 Taxus, 1-yr., flat and bench-grown.

TRANSPLANTS

20,000 Red Weigelas, Vicary Privet, Philadelphus aureus and Taxus cuspidata.

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A General Line of
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Reliable exporters for general nursery stock since 1922.

Catalog on application



Fall Bulb List Ready
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*Finished Nursery Stock
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ROSE BUSHES

Patented and Standard in
Good Assortment
Bare-Root—Packaged
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Box 400 Jacksonville, Tex.
Phone: 4117

from Lambert's to accept the award.

Frank Cornelius, Houston, reported on the A. A. N. market development and publicity program. He stressed merchandising. Recent surveys have shown that 50 per cent of retail nursery sales are made after 4:30 p.m., and it is predicted that this figure will increase to 65 per cent.

Loan Plan to Expand Planting

He also discussed the possibility of nurserymen's deriving income from interest on installment plan or mortgage-type sales. He believed that if nurseries could make arrangements with mortgage companies or building and loan associations to include in the original home mortgage or loan a sum for complete landscaping of the premises, it would benefit both the homeowner and landscape nurseryman. Instead of selling the building contractor a minimum landscape job, nurserymen could use the mortgage or loan plan to offer a custom landscape job, not just a lawn, a foundation planting and perhaps a hedge, but a real planting of the premises, done by a nursery of the homeowner's choice. Mr. Cornelius said he had found it relatively easy to sell the building contractor or real-estate developer on the idea, and the next step is to interest enough loan associations or mortgage firms in the idea.

Curtis Porterfield, secretary of the national association, was present from Washington, D. C., to speak at this session. He said that nurserymen live too close to their businesses and lose sight of the larger picture, such as changes in market and demand. He believed that management is a big problem in most small businesses and the nurseryman must never forget that the management functions must be constantly performed either by himself or someone to whom he has delegated this authority.

Mr. Porterfield said that there are some 300,000 business failures each year in the United States, 90 per cent of which are due to the failure of management. He said that of the A. A. N. members lost each year, 90 per cent are in the minimum dues-paying bracket, which means they do a gross annual business of less than \$25,000. Something is drastically wrong, he said, when a firm cannot afford to pay the minimum dues of around \$70, when in many unions individual members pay \$100 or more to their organizations.

Carroll Wilson, Jacksonville, president of Texas A. A. N. chapter 25,



PAULOWNIA

	Each	Three
4 to 6 ft., T.....	\$ 7.50	\$20.00
6 to 8 ft., T.....	10.00	25.00
8 to 12 ft., T.....	12.50	33.00

Trees in the above picture were planted in April of this year. They were cut back to the ground. Now, August 8, many of the trees are 12 ft. and still growing. Our supply is limited; if interested, place your order now.

We can supply the seed. 200 clean seeds for \$1.00.

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EVERGREENS

100 acres of choice evergreens
ready for sale.

Write for price list.

GRANT'S NURSERY

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Quality stock plus pleasing
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89th Year of Growing

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Concord Grape Roots

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FRUIT TREES

Dwarf and Standard

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Quality stock at reasonable prices.

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FOR QUALITY—Nursery-Grown Shade Trees in Quantity:

A hundred acres of excellent trees of various varieties to select from.

Come and see them.

SHAHAN NURSERIES

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Tullahoma, Tenn.

presided over the election of delegates to the 1962 national convention. Delegates with another year of their terms to serve are Judd Germany, Sr., Fort Worth, and Ralph Griffing, Beaumont. New delegates will be Frank Cornelius, Houston, and Ed Tedder, Tyler. Elected alternate delegates were L. J. Hilscher, Fort Worth; Starley Hand, Tyler, and Irwin Easley, Tyler.

Social Events

Convention activities opened with the exhibitors' appreciation party, a get-acquainted dance, Sunday evening at Moody center.

Monday evening costumes and/or informal clothes were the order for the Beachcomber party at Moody center. A sumptuous seafood buffet supper was served. A Dixieland band furnished entertainment and dance music.

The convention concluded Wednesday evening with the president's reception and past presidents' banquet and dance. The ballroom in Moody center was lavishly decorated with roses donated by Tyler rose growers. Ed Courtade, Courtade Nursery, Houston, was in charge of the decorating. An arbor of yellow roses and podocarpus formed the entry to the dance floor. Each tier of dining tables was decorated with arrangements of roses resembling tree roses, with variegated pittosporum around the bases. The head tables and the stage were decorated with arrangements of red roses and white gladioli.

The invocation was given by Frank Cornelius. The retiring president was master of ceremonies to present the new officers and those

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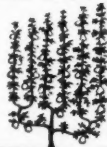
Specializing in hardy Rhododendrons and Azaleas, Acer, Fagus, Ornamental Trees and Shrubs, Perennials in leading varieties. Quality stock. Trade list on request. Ocean and air freight.

Invest in Top Quality

Dwarf Fruit Trees Espalier Trained Fruit Trees

For retail sales. Mailing No. 11, VII and IX rootstock. Hardy, northern-grown trees, guaranteed free from insect pests and plant diseases.

Send today for wholesale prices.



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WRITE
TODAY

I wish to pay tribute to a great man — HENRY B. CHASE of Huntsville and Chase, Ala. Henry, we will miss you . . . but all of your friends will remember how you have served your city and community, and how you have inspired your fellow nurserymen by setting a high standard of business practice. I am sure the Lord welcomed you home by saying, "Well done, thou good and faithful servant."

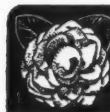
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Jan de Graaff's

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GRESHAM, OREGON

Lilies
Exclusively

Descriptive Catalog—Color Folder



**SEMME'S
NURSERIES**

AZALEAS - CAMELLIAS
and other choice evergreens

Wholesale Catalog SEMMES, ALA.*

America's Finest

ROSES

Contract Growing Invited

Leading Patented and Popular Varieties

Grown in our nurseries at Tyler, Texas, and Phoenix, Arizona

Write for Variety List

CARL SHAMBURGER NURSERY

P. O. Box 458

Wholesale Only

Tyler, Texas

vez pool on Monday and a movie following dinner at the Beachcomber party. Tuesday they were entertained by a ferry ride and then the rides at Stewart beach amusement park. There were a movie and games in the evening at the hotel. Wednesday they had a swimming party and then a bingo party after the convention banquet.

The Teen TANNers also started activities with a get-acquainted party at the Galvez hotel. There were a bowling party Monday morning and a swimming party in the afternoon. Wednesday they again swam, with luncheon poolside. In the evening the group enjoyed a hayride, ferry trip, barbecue supper and an informal dance.

After attending the TANNers' president's reception, the teenagers had dinner at the convention banquet and then held their own dance at the Galvez hotel.

In charge of all these activities were Mr. and Mrs. Stacy Botter, co-chairmen; Mesdames Alton True-lock; John Botter; Sally Reid; James Chambers; George Beck; Tom Con-don, and Charles Cornelius.

Juniors Elect Officers

Joy Lynne Botter, Alvin, president of the Teen TANNers, presided at the group's business meeting August 22. Elected officers for the next year were John Vaught, Austin, president; John Verhalen, Marshall, vice-president, and Vicky Pletcher, Har-lingen, secretary.

APPLICATION for rezoning an acre from single family residential to commercial classification on Dun-dee road, near Sanders road, in Northfield, Ill., for development with a garden shop, nursery and landscaping business has been made by Paul Horvat, 1127 Lake street, Wilmette, Ill., now in the landscap-ing and tree-trimming business there.

EVERGREENS

FIELD-GROWN LINERS

\$100 per 1000, 6 to 8 ins. and larger

Hetz, Andorra, Excelsa (Greek) and Fastigiata Junipers.

Also potted liners. Write for complete list.

B&B EVERGREENS

Arborvitae, Baker and Upright Bonita		Juniper, Hetz	
24 to 30 ins.....	\$1.00	15 to 18 ins.....	\$1.00
30 to 36 ins.....	1.25	18 to 24 ins.....	1.25
Arborvitae, Berckmans Golden		Juniper, Nick's Compact	
15 to 18 ins.....	1.00	12 to 15 ins.....	1.00
18 to 24 ins.....	1.25	15 to 18 ins.....	1.25
Juniper, Andorra		Juniper, Pfitzer	
15 to 18 ins.....	1.00	12 to 15 ins.....	1.00
18 to 24 ins.....	1.25	15 to 18 ins.....	1.25
Juniper, Fastigiata		Juniper, Von Ehron	
24 to 30 ins.....	1.00	15 to 18 ins.....	1.00
30 to 36 ins.....	1.25	18 to 24 ins.....	1.25
Juniper, Greek			
15 to 18 ins.....	1.00		
18 to 24 ins.....	1.25		

We can arrange semitrailers for 35¢ per mile one way.

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ALDRIDGE NURSERY

VON ORMY, TEXAS

Wholesale Nursery Stock

Complete line of container and field-grown ornamentals

● Better Quality

● Better Value



SMALL FRUIT PLANTS

Grapes

Currents

Berry Plants

Write for Wholesale Price List

FOSTER NURSERY CO., Inc.

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FREDONIA, N. Y.

VOSTERS

NURSERIES AND GREENHOUSES, INC.

Tropical Foliage Plants for Interior Decor

Main Office,

Secane, Pa.

(Suburban Philadelphia)

Cutler, Florida
Perrine, Florida
Wilmington, Delaware



Pacific Coast News

ORANGE COUNTY CHAPTER

At a meeting of the Orange County chapter of the California Association of Nurserymen, officers were elected as follows: President, David J. Roberts, Roberts Subtropical Gardens, El Modeno; vice-president, H. A. Andersen, Andersen's Wholesale Nursery, Artesia, and secretary, James A. Tringham, Kellogg Supply Co., Inc., Westminster.

Serving on the board of directors are John Emoto, Metro Biological Laboratory, Buena Park; Don A. Speck, Crown Fertilizer Co., Santa Ana; Henry Saruwatari, Verano Nursery, Garden Grove; Osamu Nakamura, L. & M. Nursery, Costa Mesa; Don Knipp, Hollister's Nursery & Garden Shop, Costa Mesa, and Ace Kusuda, Garden Grove Nursery, Garden Grove. David J. Roberts will represent the chapter on the state board.

James A. Tringham, Sec'y.

CALIFORNIA NOTES

It is reliably reported that the Jackson & Perkins Co. is giving up its rose-growing ranches in the San Joaquin valley, in California. Much of the commercial production will be moved to the extensive Jackson & Perkins fields in Arizona. The firm will increase its plantings in the Livermore valley of California, where it also will expand plant breeding and other research facilities, increase areas devoted to the growing of understocks for roses and increase the areas devoted to the growing of tree roses. It was noted that while roses for greenhouses and for ornamental purposes do better in the Arizona locations, tree roses are produced more satisfactorily in the California locations.

Oki Nursery, Inc., grower and distributor of general nursery stock at Perkins, held an open house September 14. Trade members from all over the state were invited for the all-day affair at which the firm's renovated packing and handling facilities were displayed, including ornamentals in terra-cotta colored Plantainers; the latest techniques in mechanical planting; U. C. soil mix demonstrations; new mechanized soil mixing and treating equipment; newly established, isolated, permanent mother blocks; new, overhead sprinklers; scientific fertilizing systems; a cold-storage equipped propagation building; an all-purpose steel

building being used for canning and grading of bare-root stock; maintenance; a palletized assembly area; new serviceable trucks and trailers, and the modern office building.

The California unemployment insurance code was amended at the recent session of the legislature, and a new disability insurance coverage for agricultural workers, including those in ornamental nurseries, will go into effect October 1. It will be the responsibility of all employers of agricultural labor to deduct 1 per cent of employees' wages, hold it in trust and send it to the department of employment as a registered employer under the disability provisions of the code. Disability benefits are payable to persons who are unable to perform their customary work because of nonoccupational illness or injury. Occupational disabilities are covered by workmen's compensation. There is no contribution to the nonoccupational insurance premiums by the employer, but all employees are required to contribute.

Nurserymen who grow rhododendrons solely for decorative plants may be interested in reports from

the University of California at Los Angeles, where tests have been completed with the blooms of rhododendrons as cut flowers. In the tests it was found the buds may be stored at 35 degrees Fahrenheit for about 10 days and then when taken into room temperature will last about seven days under ordinary conditions. The workers also report that cutting the stems and adding a preservative to the water extends the life of the flowers four days. A warning is given that the buds or the flowers should not be stored with apples or other fruit.

The California state department of agriculture is making an effort to eradicate the few specimen Japanese beetles that were recently found on the state Capitol grounds. An area with a radius of about half a mile has been quarantined. The Sacramento county commissioner of agriculture is having the area sprayed completely with Sevin, an insecticide which seems to be most effective against this pest. Although many workers are pessimistic with regard to the eradication of the pest, every effort that will tend to prevent its spread and perhaps eradicate the Japanese beetle is considered worthwhile, for the pest could cause extensive damage to the fruit and vege-

MILTON NURSERY CO.

Since 1878

MILTON-FREEWATER, ORE.

Flowering, Ornamental, Shade Trees and Shrubs, Fruit Trees, Fruit Tree Seedlings and Angers Quince Rooted Cuttings.

Licensed Growers of

Crimson King Maple (Pat. No. 735)
Imperial Locust (Pat. No. 1605)
Moraine Ash (Pat. No. 1768)
Moraine Locust (Pat. No. 836)
Shademaster Locust (Pat. No. 1515)
Sunburst Locust (Pat. No. 1313)

Send for Our Price List

Combination carlots for eastern distributing points.

A. MCGILL & SON

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Wholesale only

FRUIT TREE SEEDLINGS
FLOWERING ORNAMENTAL TREES
SHADE TREES

Licensed Growers of

Crimson King Maple (Pat. No. 735)
Moraine Locust (Pat. No. 836)
Shademaster Locust (Pat. No. 1515)
Skyline Locust (Pat. No. 1619)
Sunburst Locust (Pat. No. 1313)

Constant Vigilance Results
in Quality Stock

Combination carloads to eastern
distributing points.
Write for our list.

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Top-quality, field-grown patented and standard roses.

Write for list and prices.

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Jefferson, Ore.

CUTTING-GROWN RHODODENDRON LINERS

Hardy and semihardy varieties.
Quality only

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DOTY & DOERNER, Inc.

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PORTLAND 1, OREGON

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R O S E S

Top-quality, northern California, field-grown, patented and standard bush and tree roses. Write for list and prices.

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Chino, Calif.



OREGON GROWN

Combination car and truck loads throughout the USA. Write now for your '61-'62 catalog.

A broad selection, including shade and flowering trees, carefully grown in fine Oregon loam. Maximize profits. Order now.

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Phone: BElmont 5-3113

PORTLAND 15, ORE.

RHODODENDRONS

Well budded. Extra-nice foliage. Broad, compact, *carefully-grown* plants. Write for list of varieties.

	Each
24 to 30 ins.	\$6.00
21 to 24 ins.	5.00
18 to 21 ins.	4.25
15 to 18 ins.	3.75

table crops being grown in the state.

The inauguration of a new program of planting and replacement of trees along existing and newly constructed freeways has been announced by Robert B. Bradford, newly appointed state director of public works. The tree-planting program is to be in addition to the existing landscape and functional planting carried on by the division of highways. The cost of the plantings is quoted as being from \$100 to \$250 per mile and is said to be particularly valuable where the freeway transverses a rural area in which existing trees had been removed from the right of way during the construction program. Trees to be used will be those recommended for the area, and it is hoped that they will not involve maintenance beyond the watering required during the first year or two after they are set out.

The San Mateo county department of agriculture has published a booklet entitled Home Garden and Orchard Spray Program. Developed for the home gardener, it is also a valuable reference for the retail ornamental nurseryman. Besides telling the limitations and availability of insecticides and fungicides in retail nurseries and giving the minimum amount of spraying needed in a satisfactory pest-control program it gives important cautionary measures a sprayer must observe. Beside fruit items, about 30 commonly grown ornamentals are considered. The booklet can be obtained on request to the office of the county commissioner at Redwood City. W. B. B.

DISCONTINUED is the Kayser Plant & Foliage Nursery, Healdsburg, Calif.

CUT CHRISTMAS TREES PREMIUM SCOTCH PINE

- Pruned for 5 years
- Excellent color
- Plantation-grown

Truck or carloads.

Shipping for 10 years to Ohio and Michigan nurserymen.

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Write for our catalog listing over 500 varieties.

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WRITE FOR NEW LIST

Berried Hollies
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Packaged, Cut Holly

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ORNAMENTAL WOODY PLANTS AND ROSES

Write for our lists.

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RHODODENDRON AND EVERGREEN LINERS

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QUALITY NURSERY STOCK

ACER PLATANOIDES

Fassens's Red-Leaved Maple		
	Per 10	Per 100
6 to 8 ft., br.....	\$35.00	\$325.00
5 to 6 ft., br.....	25.00	225.00
8 to 9 ft., whips..	30.00	225.00
7 to 8 ft., whips..	25.00	210.00
6 to 7 ft., whips..	21.00	180.00
5 to 6 ft., whips..	16.00	140.00
4 to 5 ft., whips..	13.00	110.00
3 to 4 ft., whips..	10.00	85.00

Norway Maple

12 to 14 ft., br....	35.00	325.00
10 to 12 ft., br....	30.00	275.00
8 to 10 ft., br....	25.00	225.00
6 to 8 ft., br....	20.50	180.00
5 to 6 ft., br....	15.00	135.00
8 to 9 ft., whips..	10.50	100.00
7 to 8 ft., whips..	10.00	95.00
6 to 7 ft., whips..	9.50	90.00
5 to 6 ft., whips..	8.00	75.00
4 to 5 ft., whips..	6.00	55.00

Columnar Norway Maple

3-yr., 11 to 12 ft..	33.50	310.00
3-yr., 10 to 11 ft..	30.00	275.00
2-yr., 9 to 10 ft..	27.50	250.00
2-yr., 8 to 9 ft..	25.00	225.00
2-yr., 7 to 8 ft..	22.00	195.00
2-yr., 6 to 7 ft..	18.50	170.00
1-yr., 5 to 6 ft..	15.50	140.00
1-yr., 4 to 5 ft..	12.00	110.00
1-yr., 3 to 4 ft..	10.00	90.00

Drummond Norway Variegated Maple

6 to 8 ft., br.....	28.50	260.00
5 to 6 ft., br.....	23.50	210.00
8 to 9 ft., whips..	21.00	185.00
7 to 8 ft., whips..	20.00	175.00
6 to 7 ft., whips..	18.00	165.00
5 to 6 ft., whips..	14.50	130.00
4 to 5 ft., whips..	10.00	90.00

ACER PSEUDOPLATANUS

Improved Spæthi		
12 to 14 ft., br....	37.50	350.00
10 to 12 ft., br....	32.50	300.00
8 to 10 ft., br....	27.50	250.00
6 to 8 ft., br....	22.50	200.00
5 to 6 ft., br....	16.50	150.00
6 to 7 ft., whips..	12.50	115.00
5 to 6 ft., whips..	10.00	90.00
4 to 5 ft., whips..	8.00	70.00

ACER RUBRUM (Red Maple)

10 to 12 ft., br....	32.50	300.00
8 to 10 ft., br....	27.50	250.00
6 to 8 ft., br....	22.50	200.00
5 to 6 ft., br....	16.50	150.00
4 to 5 ft., whips..	12.50	115.00

ACER SACCHARUM MONUMENTALE

(Columnar Sugar Maple)		
8 to 10 ft., br....	27.50	250.00
7 to 8 ft., whips..	25.00	225.00
6 to 7 ft., whips..	22.50	200.00
5 to 6 ft., whips..	20.00	175.00
4 to 5 ft., whips..	17.50	150.00
3 to 4 ft., whips..	15.00	125.00

BETULA ALBA

(European White Birch)		
12 to 14 ft., br....	35.00	325.00
10 to 12 ft., br....	27.50	250.00
8 to 10 ft., br....	22.50	200.00
6 to 8 ft., br....	16.50	150.00
5 to 6 ft., br....	12.00	110.00
4 to 5 ft., whips..	9.00	85.00
3 to 4 ft., whips..	6.50	60.00

FRAXINUS QUADRANGULATA

(Blue Ash)		
10 to 12 ft., br....	37.50	350.00
8 to 10 ft., br....	32.50	300.00
6 to 8 ft., br....	27.50	250.00
5 to 6 ft., br....	22.50	200.00
6 to 7 ft., whips..	18.00	165.00
5 to 6 ft., whips..	15.00	135.00
4 to 5 ft., whips..	12.00	105.00

Quantity Prices and Catalog
Upon Request

POWELL VALLEY NURSERY
210 S. E. Vista Ave.
Gresham, Ore.
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THREE-CHAPTER MEETING STAGED IN OREGON

The Cascade chapter of the Oregon Association of Nurserymen was host to a 3-chapter meeting at Roseburg, Ore., August 8, which also included the Emerald Empire and Willamette chapters. Besides members of the three chapters named, all of the other four chapters of the O. A. N. were represented at the meeting, led by Elwood Stansfield, S. & H. Landscape Nursery, Central Point, president of the Cascade chapter.

Erwin Fowler, Milton Nursery, Milton-Freewater, president of the O. A. N., expressed his appreciation for the combined meeting in an address to the group. He called attention to the marketing problem which exists for most nurserymen and said he felt that the advertising-promotion committee of the O. A. N. would offer a way toward better marketing conditions. He asked wholesalers to assist more in the program, stating that the combined efforts of both wholesalers and retailers are necessary to produce good results. He reminded the nurserymen that they have a beautiful product to sell.

Mr. Fowler then reported on the A. A. N. convention and told of the plan designed to remove nonnursery products from dues assessments. He also told about the decision to bar A. A. N. membership of supermarkets and similar nonnursery outlets.

In his closing remarks, President Fowler urged attendance at the Gearhart meeting September 18 to 20 and asked that members put their minds and hearts to work for the O. A. N.

Executive Secretary Belknap outlined the Gearhart program. Then he spoke about the annual yearbook, with which it is hoped the O. A. N. will be able to expand its finances, thereby making other promotions possible. It is hoped that a greater percentage of the consumer dollar may be channeled into the nursery industry, he said. Referring again to the directory, Mr. Belknap said that approximately 3,000 copies are planned for mailing across the nation, one half of the book to be in advertising and the rest to include information about each of the members, including the stock which is available through each. The directory is planned as a substitute for the trade fair and Mr. Belknap predicted a quadrupling of the income via the directory.

Charles H. Potter, editor of the O. A. N. Digger, spoke briefly to

ROSES

OLD and NEW

Fine-quality, two-year plants
budded on Multiflora in over
250 varieties.

Write for our list explaining
our new freight-saving plan.



MT. HOOD NURSERY
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DOERFLER SPECIALTIES

SHEARED

BOXWOOD

Many nurserymen tell us we
have the best

SHEARED

GLOBE AND PYRAMID BUXUS SEMPERVIRENS

in the United States.

Also Dwarf Suffruticosa and general nursery stock, including large shade and flowering trees.

We have shipped in carlots to many parts of the United States for years.

F. A. DOERFLER & SON, INC.
250 Lancaster Dr., N. E.
Salem, Ore.

LOOKING FOR CONSISTENT QUALITY?

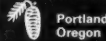
We grow and ship a complete line of nursery stock, including

Hardy Rhododendrons
Skimmia **Holly**

Write for our list. Ask us about any special needs.

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MODERN FOLIAGE PLANTS

By Alfred B. Graf

Tells the best plants for various uses, their characteristics and care. Articles reprinted from 'The Florists' Review.' Helps in taking orders. Sell or give copies to customers. 32 pages, 31 illustrations. 50c per copy 5 copies for \$2.00

AMERICAN NURSERYMAN

343 S. Dearborn St. Chicago 4, Ill.

SHADE and FLOWERING TREES

Broad-Leaved and Coniferous
Evergreens
B&B or Container-Grown
Write for list.

TILLSTROM NURSERY

R. F. D. 3, Box 870 Gresham, Ore.

the group about publication affairs and urged members to forward news items to him. Reed Vollstedt told the group about the civic planting project which the Emerald Empire chapter will handle in September. B. F. Winkler, Winkler's Nursery, Aumsville, reported on recent Willamette chapter activities.

Lynn Brooks, Carlton Nursery, Forest Grove, called for a poll of those present concerning important points in connection with the annual Oregon State University short course. Mr. Brooks is chairman of the short course advisory committee of the O. A. N.

Pat Dering, Peterson & Dering, Scappoose, chairman of the O. A. N. membership committee, noted that the association had grown 86 per cent from 1946 to 1960. Twelve new members have been added to the rolls since January 1, 1961.

The Green Arrow Nursery, Grants Pass, owned by Charles and Joan Hamilton, was accepted for membership in the Cascade chapter of the O. A. N. during the meeting. The meeting closed with awarding of prizes.

The state board of directors of the O. A. N., under the leadership of President Erwin Fowler, held a busy session after the 3-chapter meeting. Matters discussed included the O. A. N. directory and the public relations program for the future. At the close of the session, W. P. Nuffer, chairman of the Digger advisory committee, led an informal discussion of the publication and urged board members to be considering ways and means to strengthen the advertising program and to broaden the publication's scope to the benefit of advertisers. Changes in reader material were also discussed.

C. H. P.

OREGON NOTES

Cooley's Gardens, Silverton, Ore., and the A. B. Morse Co., St. Joseph, Mich., were joint winners of a nation-wide catalog contest recently. The iris-producing firm had a 60-page, full-color catalog printed by the Michigan firm which featured iris in color on every page. Format, design and typography were the determining factors for the winning catalog.

Miss La Rea J. Dennis, herbarium botanist, Oregon State University, Corvallis, called attention recently to the poisonous plant *Solanum dulcamara*, including the horticultural varieties, bitter nightshade and bit-

[Continued on page 92]



GOLD STAR

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U. S. A. OFFICE

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Telephone: TWInbrook 4-5474

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SELECT XMAS TREES

Nova Scotia BALSAM FIR

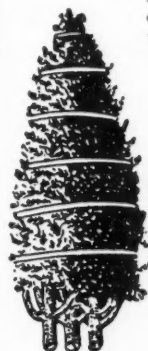
Shipped from our personally supervised grading yard in Nova Scotia. Bundles 50 to 60 lbs.—carloads 450 to 550 bundles—truckloads 300 to 450 bundles. Single wraps (premium quality) 5 to 11 ft. Trees tied individually — carloads 1,000 trees — truckloads 500 to 800 trees.

Ontario-grown SCOTCH PINE

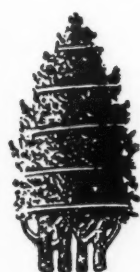
Plantation-grown 5½ to 7 ft. (1,000-acre plantation). Heavily sheared (5 times). Specimen quality with excellent color. Carloads 900 to 1,000 trees—truckloads 700 to 800 trees.

TRUCKLOAD & CARLOAD QUANTITIES

Send for FREE color brochure and delivered prices. FREE advertising material and merchandising tips with every order.



10 ft.
2 in Each Bundle



12 ft.
1 in Each Bundle



8 ft.
3 in Each Bundle



7 ft.
4 in Each Bundle



6 ft.
5 in Each Bundle



5 ft.
8 in Each Bundle

INCREASE SALES 100%

Don't Keep Your Customers Waiting for information about your stock. These self-selling plastic labels give all the information your customer wants — creating additional sales while you are busy.

We have the largest selection of horticultural subjects on plastic labels anywhere. Available in two types: (1) Over 800 varieties illustrated in full color; (2) over 600 fully descriptive labels with large, readable type.

SHOW IT and SELL IT — HIDE IT and KEEP IT

ASK FOR FREE SAMPLES AND CATALOG

GROWERS & MANUFACTURERS EXCHANGE

8434 S. Rosemead Blvd., Rivera, Calif.
Phone OXford 9-0711

No. 3 Container-Marker (picture and holder). Holder is 27 inches high. Prongs at bottom prevent turning in the wind. Use for salesyard display.



CLASSIFIED ADS

Rate: 40 cents per line, each insertion.

Minimum order, \$4.00.

Instructions for the October 15 issue must be received by Friday September 22

Forms for November 1 issue will close Friday, October 13

AZALEAS

BECKY AZALEA
U. S. pat. No. 1699.
ROOTED CUTTINGS (minimum 100).
Each 100 500 1000
..... 25c 20c 18c
DORMANT PLANTS
(For shipment September 1961.)
Each, in lots of 100 250 500 1000
4 to 6 ins. \$0.70 \$0.65 \$0.63 \$0.60
6 to 8 ins. 1.20 1.10 1.00 .90
8 to 10 ins. 1.45 1.35 1.25 1.15
Prices are F.O.B. Seacane and include patent label for each plant purchased.
VOSTERS NURSERIES & GHSES, INC.
Seacane, Pa.

AZALEAS

Complete block of Azalea Polaris (white), mostly 15 to 18 ins., \$1.75; 18 to 24 ins., \$2.00. Approximately 250 plants. Special price on complete block. Other varieties and larger sizes also available. Pickup and delivery. No shipping.

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Potshot Rd. R.D. 1 Norristown, Pa.
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HINO-CRIMSON, GLENN DALES, ETC.
Thousands of beautiful Hino-Crimson and other evergreen Azaleas, including newer varieties. Dense, bushy, well-budded for landscape planting and forcing. Book your order now, to be sure of getting yours for the coming season. Landscape sizes.
THE TANKARD NURSERIES.
Exmore, Virginia.

SPECIMEN AZALEAS
Write for wholesale list.

MARSHALL NURSERIES
R. F. D. 5 Salisbury, Md.

AZALEA MOLLIS
Seedlings, 2-yr. transplants,
\$15.00 per 100.
WHITE COTTAGE NURSERY
Route 1 Coopersburg, Pa.

AZALEAS
For forcing and landscape planting.
Write for our trade list.
THE LEVICK NURSERY CO.
R. F. D. 3 Bridgeton, N. J.
SEEDS, SEEDLINGS AND TRANSPLANTS
Hybrids and species in \$1.00 pkts., in flats and in peat pots. Free packing. Ask for list.
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P. O. Box 336A Neshanic Station, N. J.

BARBERIES

Beautiful red-leaved Barberry, heavy branched plants, 12 to 15 ins., \$12.00 per 100.
Tidwell Nurseries, Greenville, Ga.

BERRY PLANTS

RED RASPBERRIES AND AMBER YELLOW RASPBERRIES
Earlired (very early); Latham, Muskoka, Canby, Thames and New Hampshire (mid-season); Durham and September Everbearing. Above varieties, up to 3/16-in., \$65.00 per 1000; large size, \$75.00 per 1000. Amber Yellow Raspberries, large only, \$75.00 per 1000.

Above sent F.O.B. shipping point.
Pack-out prices on request.
Write for free catalog and wholesale price list, describing 70 varieties of small fruit plants, latest and best in Strawberry plants.
WALTER K. MORSS & SON
Bradford, Mass.

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BLEEDING HEARTS

Peonies, Irises

and Day Lilies.

ROBINSON GARDENS
Since 1915 Scotts, Mich.

HOLLAND AND DOMESTIC BULBS
FOR FALL AND SPRING
DeGROOT BULB CO.
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Phone SWathmore 6-6025

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INTERESTED in bulbs and perennials for fall delivery?

It will pay you to request our wholesale price list which offers a complete assortment of imported and domestic bulbs; both the NEWER introductions as well as all standard popular varieties.

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P. O. Box 123 Benton Harbor, Mich.

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HARDY BOXWOOD
2000 bushy, well-developed plants, 10 to 12 ins. tall, balled.
10 to 99 \$1.80 each
100 to 999 1.50 each
1000 to 2000 1.25 each
FRITS LOONSTEN
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English Boxwood, strong, branched transplants, 4-in., 10c each. Alanwold Nursery, Box 98, Neshaminy, P. O., Pa.

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CHINESE SWEET CHESTNUTS
Now booking orders for seed nuts from our best trees from fall crop. 50c per lb., plus postage.
For eating purposes, will sell at the current price at time of shipping.
Prices reduced for large quantities.
Also trees for sale.

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CLEMATIS VINES
Large flowering, hardy vine.
Fall and spring shipment.
All No. 1 quality. Various size plants and all popular varieties!
ORDER FROM ONE OF THE OLDEST PROPAGATORS AND GROWERS IN THE U.S.A.

QUALITY. SERVICE. PRICE.
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CLEMATIS VINES
QUALITY LARGE-FLOWERING HYBRIDS
20 OUTSTANDING VARIETIES

FOR FALL AND SPRING SHIPMENTS
FROM 4-IN., 3-IN., 2 1/4-IN. POTS
GREENHOUSE-GROWN
STERILIZED PRODUCTION
WRITE FOR COMPLETE LIST
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HUSKY CLEMATIS STOCK PLANTS
2 and 3-yr.-old, \$1.25 each.
Have over 5000 to sell.
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CLEYERA JAPONICA
(Ternstroemia gymnanthera)
We have this fine plant in large quantities in 1 and 2 gallon and egg cans. Please write for our descriptive catalog if you don't have it.
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DELPHINIUMS
Pacific Hybrids, Belladonna, Bellamosum, Blackmore & Langdon, all colors. Plants grown in open field in rows properly spaced for root development under irrigation. All sand-grown. Order now for early fall shipment and reserve for early spring 1962 delivery. New wholesale list available.
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Box AN Plainwell, Mich.

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SPECIMEN LANDSCAPE MATERIAL
Cornus florida, for street planting,
1 1/2 to 3 1/2-in. cal., 8 ft. branching
at 5 and 6 ft. above ground,
6 to 8 ft., heavy, 1 1/4 to 1 1/2-in. cal. \$ 3.00
8 to 10 ft., extra heavy, 2-in. cal. 5.00
10 to 12 ft., extra heavy, 2 to 3-in. 10.00
Cornus florida rubra
6 to 8 ft., heavy, 1 1/4 to 1 1/2-in. cal. 6.00
8 to 10 ft., extra heavy, 2-in. cal. 8.00
10 to 12 ft., extra heavy, 2 to 3-in. 15.00
B&B extra. Inspection invited.

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Cor. of Naugatuck Ave. and W. Rutland Rd.
Phone TR 4-3498 Milford, Conn.

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EPIMEDIUMS
Epimedium niveum (white)
Epimedium rubrum (red)
Grows either in sun or shade and makes an ideal ground cover. Good for planting under Rhododendrons and other evergreen shrubs. Has stiff leathery leaf. Immune to disease and insects.
1-yr., \$45.00 per 100, \$400.00 per 1000.
WHERE QUALITY EXCELS. No charge for packing.
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EUONYMUS, COLORATUS AND DUPONT
Large quantities. Fine for ground cover and other uses. Special prices in 1000 lots, for large landscape contracts.
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EVERGREENS, Liners

EVERGREEN LINERS
Per 100 Per 1000
GLOBE ARBORVITAE,
woodwardi, dark green, 1-yr.
transplants, 4 to 6 ins. \$30.00 \$250.00
Hovey's, green; 1-yr. transplants, 4 to 6 ins. 25.00 200.00
2-yr. trans., 4 to 6 ins. 40.00 300.00
PYRAMIDAL ARBORVITAE
compacta, green, 1-yr.
transplants, 5 to 7 ins. 35.00 300.00
JUNIPER, Blue Pfitzer,
(chinensis hetzel), 1-yr.
transplants, 5 to 7 ins. 25.00 200.00
JUNIPER, Irish, 1-yr. transplants, 4 to 6 ins. 30.00 250.00
JUNIPER, Andorra, 1-yr. transplants, 4 to 6 ins. 30.00 250.00
JAP. YEW, grown from seed,
Taxus cuspidata capitata,
upright, pyramidal, 3-yr.
transp. (2-1), 4 to 8 ins. 30.00 200.00
JAP. YEW, transplanted rooted cuttings,
Taxus cuspidata, spreading,
1-yr. transp., 5 to 6 ins. 25.00 175.00
2-yr. transp., 6 to 8 ins. 35.00 250.00
Taxus hicksii, upright,
1-yr. transp., 5 to 6 ins. 25.00 175.00
2-yr. transp., 6 to 8 ins. 25.00 200.00
Taxus brownii, upright,
1-yr. transp., 4 to 6 ins. 25.00 175.00
2-yr. transp., 6 to 8 ins. 40.00 300.00
Taxus hunnewelliana, semi-upright,
1-yr. transp., 4 to 6 ins. 25.00 175.00
Taxus intermediata, spreading,
1-yr. transp., 4 to 6 ins. 25.00 175.00
2-yr. transp., 6 to 8 ins. 35.00 250.00
JAPANESE HOLLY (Ilex),
rotundifolia, transplants,
6 to 10 ins. 35.00 300.00
convexa, transplants,
6 to 10 ins. 35.00 300.00
crenata hetzel, transplants,
6 to 10 ins. 35.00 300.00
AMERICAN HOLLY, rooted cuttings,
ratio 1 male to 9 female
Ilex opaca pyramidalis, 1-yr.
transp., 6 to 12 ins. 50.00 400.00
DELIA BRADLEY, 1-yr. transp.,
8 to 12 ins. 50.00 400.00
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Box 16TC Indiana, Pa.

KOSTER AND MORHEIM BLUE SPRUCE
1-yr. grafts, \$1.50 each.
Cash with order.
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	Per 100	Per 1000
Jap. Black Pine, 6 to 10 ins.	\$5.50	\$27.50
Am. Red Pine, 8 to 16 ins.	5.00	25.00
Am. Red Pine, 5 to 10 ins.	4.00	20.00
White Pine, 8 to 12 ins.	5.00	25.00
White Pine, 4 to 8 ins.	3.50	17.50
Austrian Pine, 8 to 16 ins.	4.50	22.50
Bristlecone Pine (Pinus aristata), 2 to 3 ins.	7.00	35.00
1 to 2 ins.	5.00	25.00
Mugho Pine, 8 to 14 ins.	6.00	30.00
Mugho Pine, 3 to 6 ins.	4.50	22.50
Norway Spruce, 8 to 16 ins.	5.50	27.50
Norway Spruce, 6 to 12 ins.	5.00	25.00
White Spruce, 8 to 16 ins.	5.50	27.50
Colo. Blue Spruce, 4 to 8 ins.	5.00	25.00
Colo. Blue Spruce, 3 to 6 ins.	4.00	20.00
Am. Arborvitae, 8 to 12 ins.	4.00	30.00

TRANSPLANTS

White Spruce, 3-2, 8 to 12 ins.	12.00	60.00
Douglas Fir, 2-1, 6 to 8 ins.	8.00	40.00
Norway Spruce, 2-3, 12 to 20 ins.	14.00	70.00
Colo. Blue Spruce, 2-3, 8 to 16 ins.	14.00	70.00

ROOTED CUTTINGS

Taxus, Sebian, wardi, hatfieldi, moonii, hunewelliana, densiformis, hicksii, andersonii, browni, cuspidata, capitata, \$9.00 per 100.
American Holly, 2-yr. transplants, Cumberland, Old Heavy Berry, Menantico, Males, Mae, Maurice River, Mamie Eisenhower, Yule, Manig, St. Mary, Arden, Lady Alice, Eleanor, Farage, 10 to 16 ins. 85¢ each.

Complete listing on request.

Packing free for cash with order, or 25¢ per cent down, balance C.O.D.

DUNEGAN NURSERY
Clymer, Pa.

EVERGREEN SEEDLINGS

	100	1000
Douglas Fir, 6 to 12 ins.	\$7.00	\$30.00
10 to 18 ins.	8.00	40.00
Concolor Fir, 6 to 12 ins.	7.50	35.00
12 to 18 ins.	11.00	55.00
American Arborvitae, 6 to 12 ins.	6.50	32.50
12 to 18 ins.	7.50	37.50
18 to 24 ins.	12.00	60.00
Black Hills Spruce, 4 to 9 ins.	5.00	25.00
10 to 18 ins.	8.00	40.00
18 to 24 ins.	12.00	60.00
Colorado Blue Spruce, 5 to 10 ins.	8.00	40.00
10 to 18 ins.	10.00	50.00
Norway Spruce, 6 to 12 ins.	7.00	35.00
10 to 16 ins.	8.00	40.00
15 to 24 ins.	14.00	70.00
Canadian Hemlock, 6 to 12 ins.	14.00	70.00
Scotch Pine (Spanish), 18 to 36 ins.	15.00	75.00
Scotch Pine (French), 6 to 10 ins.	5.00	25.00
10 to 16 ins.	7.00	35.00
16 to 36 ins.	15.00	75.00
Scotch Pine (non-yellowing), 10 to 22 ins.	10.00	50.00
Mugho Pine, 4 to 8 ins.	7.00	35.00
Japanese Black Pine, 6 to 12 ins.	8.00	40.00
12 to 18 ins.	10.00	50.00

Plants at 100 rate sent prepaid up to zone 5.
Burlap bags approximately 50x70 ins. when opened, 15¢ each; 25¢ to a bundle.
F.O.B. Complete list on request.

NEUNER'S EVERGREEN NURSERY
368 Elcher Rd. Pittsburgh 2, Pa.

FIELD-GROWN LINERS

	100	1000
Heavy rooted.		
Greek Juniper, 6 to 8 ins.	\$0.12	\$1.20
Greek Juniper, 8 to 12 ins.	.15	.13
Greek Juniper, 2-yr., each.	.20	
Hetz Juniper, 6 to 8 ins.	.14	.12
Hetz Juniper, 8 to 12 ins.	.17	.15
Hetz Juniper, 2-yr., each.	.20	
Pfitzer Juniper, 4 to 6 ins.	.11	.09
Pfitzer Juniper, 6 to 8 ins.	.14	.12
Andorra Juniper, 6 to 12 ins.	.12	.10
Savin Juniper, 6 to 12 ins.	.12	.10
Von Ehron Juniper, 6 to 12 ins.	.12	.10

Write for prices on B&B stock.

GRANT'S NURSERY

Route 2 Caledonia, Miss.
Phone EL 6-5444

MIAMI NURSERY PRICE LIST

2-YR. POTTED STOCK
The finest: Taxus, Arborvitae, Junipers and broad-leaved liners and rooted cuttings.
2-yr., pot-grown stock, 7 to 9 ins., sheared, 20¢ to 25¢ each, per 1000 rate.
1-yr.-old, heavy rooted cuttings, 8¢ to 10¢ per 1000 rate.

NOTE: Write for price list with full line of potted stock and rooted cuttings. "GET ACQUAINTED" OFFER on 250 2-yr. pot plants or 250 rooted cuttings. Special prices on large quantities. Samples free on request.
Call collect TIPP CITY, NO 7-6398

MIAMI NURSERY CO., TIPP CITY, O.

Extra nice liners, 2-yr., 2 1/2-in. pots. Packed in good, strong, wired crates, \$15.00 per 100, \$125.00 per 1000.

Nandinas Pittosporum tobira
Gardenia fortunei Photinia serrulata
Wax Ligustrum Pfitzer Juniper
Euonymus japonica Hetz Juniper
Buxus sempervirens Aleppo Pines
Magnolia grandiflora Spiny Greek Juniper
Cherry Laurel

Cedrus deodora, 100, \$20.00; 1000, \$175.00.
Frankston Nursery Co., Box 326, Frankston, Tex.

TSUGA CANADENSIS (Canada Hemlock)
Collected seedlings.

	Per 100	Per 1000
6 to 9 ins.	\$5.00	\$30.00
9 to 12 ins.	8.00	70.00
Nursery-grown transplants.	Each, 100	1000
12 to 18 ins., 2-3	\$0.25	\$0.24
18 to 24 ins., 2-4	.50	.40
24 to 30 ins., 2-4	.60	.50

Send for complete trade list of hardy native Ferns, wildflowers, Evergreens, trees and shrubs.

ISAAC LANGLEY WILLIAMS
Box AN Exeter, N. H.

	Each, 100	1000
2-YR. TRANSPLANTS		
Boxwood, 6 to 8 ins.	\$0.18	\$0.15
Taxus hicksii, 10 to 15 ins.	.20	.18
Taxus cuspidata, 10 to 15 ins.	.20	.18
Blue Spruce, 8 to 12 ins.	.06	.05
3-YR. SEEDLINGS	100	1000
Blue Spruce, 4 to 8 ins.	\$4.00	\$30.00
Concolor Fir, 6 to 12 ins.	5.00	40.00
Norway Spruce, 8 to 12 ins.	4.00	25.00
White Spruce, 18 to 24 ins., sheared for 2 years, nice, 60¢ each.		

WILLIAM LUBBERS
622 Graafschap Rd. Holland, Mich.

LINING-OUT EVERGREENS

SEE OUR DISPLAY AD
IN THIS ISSUE
ON PAGES 18-19.

CARTWRIGHT NURSERY CO.
Collierville, Tenn.

SURPLUS STOCK

Blue Spruce, seedlings to 2 1/2 ft.
Black Hills Spruce, seedlings to 2 1/2 ft.
Douglas Fir, seedlings to 2 ft.
Norway Spruce, seedlings to 6 ft.
Scotch Pine, seedlings to 6 ft.
Austrian Pine, seedlings to 6 ft.
No reasonable offer refused.
Approximately 100,000 trees.
4 miles south of Negley on Route 170.
GUY'S NURSERY
R. D. 1 Phone Fulton 5-2756 Negley, O.

KOSTER BLUE SPRUCE

1-yr. grafts, \$1.50.
Cedrus atlantica glauca, 75¢.
Cedrus atlantica pendula, \$1.00.
Fall delivery.
Cash with order.

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8215 238 St. S. W. Edmonds, Wash.

Outdoor beds, once transplanted Each, 100
Pachistima cambyi, 1-yr. \$0.20
Pachistima cambyi, 2-yr. .30
Euonymus Sarcocoe, 2-yr. .25
Canadian Hemlock, 2-2 .35
Hicks Yew, 3-yr. .35
Browns Yew, 3-yr. .35
Hornwood (welleri), 3-yr. .35
Ilex convexa, 3-yr. .35
Whiteman's Gardens, R. 1, Plymouth, Ind.

EVERGREEN LINERS

Special fall prices.
First-class, 3-yr. stock, twice transplanted.
Taxus, cuspidata, hicksii, browni, wardi.
\$35.00 per 100, \$300.00 per 1000.
Cash with all orders, balance at shipping time, 300 at 1000 rate.

NEIDEL'S NURSERY
216 Park Ave. Oil City, Pa.

HEMLOCKS, LINING-OUT STOCK

	Each, 100	1000
Strong liners that will please you.		
Hemlock, TT, 8 to 10 ins.	25¢	22 1/2¢
Hemlock, TT, 10 to 12 ins.	35¢	32 1/2¢
Hemlock, TT, 12 to 15 ins.	45¢	42 1/2¢

TWIN CEDAR NURSERY

Williamsburg, Mass.

TAXUS LINERS

FOR FALL POTTING, 4 to 6 ins.
CUSPIDATA AND HICKSII, \$50.00 per 1000.
ADD 2¢ EACH LESS THAN 100.

AD 1¢ EACH 100 to 1000.
OUR SEASON STARTS SEPTEMBER 15
THE BUSH RANCH
140 Woodland Dr. Thomasville, Ga.

COLORADO BLUE SPRUCE

4-yr., 6 to 10 ins.
\$25.00 per 1000.
2-yr., 4 to 6 ins.,
\$15.00 per 1000.
BELLAIRE GREENHOUSE
Bellaire, Mich.

EVERGREENS, B&B

TAXUS
Columnar, Intermedia and spreading, 15 to 24 ins., \$3.00, B&B, 2 to 4 ft. sizes at special prices. Beetle area only.
QUALITY NURSERIES, ALLENWOOD, PA.

EVERGREENS, B&B

	Per 100	Per 1000
10,000 Juniperus glauca hetzli, 12 to 15 ins.	\$1.50	\$15.00
2,000 Juniper, Hill's Gold Pfitzer, 12 to 15 ins.	1.50	
2,500 Juniper, Golden Canadian, 12 to 15 ins.	1.25	
1,000 Juniper, Irish (fastigiata), 3 ft.	1.25	
1,000 Juniper, Irish (fastigiata), 2 ft.	1.00	
1,000 Juniper, Polish, 2 ft.	1.00	
1,000 Juniper, Swedish, 2 ft.	1.00	
1,000 Juniper, English, 2 ft.	1.25	
1,500 Juniper, Andorra (compacta), 12 to 15 ins.	1.50	
1,000 Juniperus stricta (Greek), 18 to 24 ins.	1.50	
3,000 Juniperus stricta (Greek), 15 to 18 ins.	1.25	
2,000 Juniperus stricta (Greek), 12 to 15 ins.	1.00	
3,000 Taxus hicksii, 12 to 15 ins.	1.25	
2,000 Taxus hicksii, 18 to 24 ins.	2.50	
1,000 Taxus hicksii (irregular), 18 to 24 ins.	1.75	
1,000 Biota Berckmans Golden, 15 to 18 ins.	1.25	
1,000 European Mt. Ash, well br., 5 to 6 ft.	1.50	
41,000 Taxus, in variety: 5-yr., XX, BR.	.50	
5,000 Juniperus glauca hetzli, 3-yr., XX, BR.	.25	
2,000 Euonymus alatus, 2-yr., X, BR.	.25	

Most of the last three items are large enough for canning.
Other interesting plants from which to choose. Efficient and mechanized operations make the above prices possible. Our grading is generous!
We are proud of these Evergreens and firmly believe there is no better quality in the country. They have been grown under best of conditions, always weed-free, well-cultivated, trimmed and sprayed.
Japanese beetle certified for movement anywhere! Expertly balled in new burlap, regular or no-rot.
Terms: CASH F.O.B., otherwise, ironclad references!

EDWARDS' NURSERY
(WHOLESALE ONLY)
West Lafayette, O.

3 miles east of W. Lafayette, on Routes 16 and 36.

B&B SHEARED EVERGREENS
White, Austrian, Scotch.

	Each, per 100
WHITE PINE, 2 to 3 ft., B&B	\$2.50
White Pine, 3 to 4 ft., B&B	3.50
White Pine, 4 to 5 ft., B&B	4.50
White Pine, 5 to 6 ft., B&B	6.50
White Pine, 6 to 7 ft., B&B	9.00
AUSTRIAN PINE, 2 to 3 ft., B&B	2.50
Austrian Pine, 3 to 4 ft., B&B	3.50
Austrian Pine, 4 to 5 ft., B&B	4.50
Austrian Pine, 5 to 6 ft., B&B	6.50
Austrian Pine, 6 to 7 ft., B&B	7.50
SCOTCH PINE, 2 to 3 ft., B&B	2.50
Scotch Pine, 3 to 4 ft., B&B	3.50
Scotch Pine, 4 to 5 ft., B&B	4.50
Scotch Pine, 5 to 6 ft., B&B	6.50
Scotch Pine, 6 to 7 ft., B&B	7.50

Dig your own, any size, \$2.00.

NORWAY SPRUCE

18 to 24 ins., B&B	\$3.00
2 to 3 ft., B&B	4.00
3 to 4 ft., B&B	5.00
4 to 5 ft., B&B	6.00
5 to 6 ft., B&B	8.00

Dig your own, any size, \$3.00.

WHITE SPRUCE

18 to 24 ins., B&B	\$3.25
2 to 3 ft., B&B	4.25
3 to 4 ft., B&B	5.25
4 to 5 ft., B&B	6.25

Dig your own, any size, \$3.50.

BLUE SPRUCE, EXCELLENT COLOR.

18 to 24 ins., B&B	\$3.50
2 to 3 ft., B&B	4.50
3 to 4 ft., B&B	5.50

Dig your own, any size, \$4.00.

All digging by experienced men.
Over 250,000 under cultivation.
MOHAWK CHRISTMAS TREE FARMS
Box 157, Sta. A Canton, O.
Phone GL 4-4169

HETZ AND PFITZER JUNIPERS

15 to 18 ins., B&B	\$1.50
18 to 24 ins., B&B	1.75
24 to 30 ins., B&B	2.00
30 to 36 ins., B&B	2.50

UPRIGHT ARBORVITAE

3 to 4 ft., B&B	2.50
4 to 5 ft., B&B	3.00
5 to 6 ft., B&B	3.50

FASTIGIATA JUNIPER

2 to 3 ft., B&B	1.25
3 to 4 ft., B&B	1.50

STRICTA JUNIPER

18 to 24 ins., B&B	1.50
24 to 30 ins., B&B	1.80
30 to 36 ins., B&B	2.00

TAXUS, HICKSII AND CUSPIDATA

12 to 15 ins., B&B	2.00
15 to 18 ins., B&B	2.50

SHAW'S GARDENS
Phone Valley 7-9849 Henderson, Ky.

EVERGREENS, B&B—Continued

EVERGREENS, B&B
The plant material listed below is of excellent quality, in mint condition and liberally graded as to size:
Euonymus vegetus, 18 to 24 ins.
Ilex hetzi, 15 to 18 ins.
Ilex convexa, 24 to 30 ins.
Ilex rotundifolia, 24 to 30 ins.
Cotoneaster divaricata, 24 to 30 ins.
Andorra Juniper, 24 ins. (heavy)
Pfitzer Juniper (nana), (dwarf), 24 to 30 ins.
Hemlock, 24 to 30 ins. (heavy)
Hemlock, 30 to 36 ins. (heavy)
Taxus capitata, 36 ins.
Taxus hicksii, 36 to 42 ins.
Taxus browni, 15 to 18 ins.
Taxus browni, 18 to 24 ins.
Taxus intermedia Sebian, 24 ins. (heavy)
Taxus intermedia Sebian, 18 to 24 ins.
Taxus wardii, 18 to 24 ins.
Taxus wardii, 24 ins.
Taxus Heasley, dwarf, 18 to 24 ins.
Taxus baccata repandens, 15 to 18 ins.
Taxus baccata repandens, 18 to 24 ins.
Taxus hicksii, large specimens, approx. 5 1/2 x 3.
Also some large specimen caps and spreaders.

Prices on request.

GOSSETT TREE SERVICE

and

BRANTWOOD NURSERIES

Phone 86275 Hayesville, O.

SPRUCE AND PINE, B&B

Each, 100
NORWAY SPRUCE, 2 to 3 ft. \$2.50
COLO. GREEN SPRUCE, 3 to 4 ft. 3.50
4 to 5 ft. 4.50
5 to 6 ft. 5.50
6 to 7 ft. 7.00
WHITE PINE, 2 to 3 ft. 2.50
3 to 4 ft. 3.50
4 to 5 ft. 4.50
5 to 6 ft. 5.50
6 to 7 ft. 7.50
SCOTCH PINE, 2 to 3 ft. 2.50
3 to 4 ft. 3.50
4 to 5 ft. 4.50
5 to 6 ft. 5.50
RED PINE, 2 to 3 ft. 2.50
3 to 4 ft. 3.50
4 to 5 ft. 4.50
5 to 6 ft. 5.50
All trees sheared each year. Thousands to choose from.

POUND'S NURSERY

AND CHRISTMAS TREES

Route 1 Phone 745-3611 Newark, O.

EVERGREENS

Each, 100
Pyramidal Arborvitae, 3 to 4 ft., B&B. \$1.75
Pyramidal Arborvitae, 4 1/2 to 5 ft., B&B. 2.25
Siberian Arborvitae, 24 ins., B&B. 2.00
American Arborvitae, 4 ft., B&B. 2.00
Thuja elegantissima, 4 ft., B&B. 2.00
Andorra Juniper, 18 ins., B&B. 1.50
Greek Juniper, 20 to 24 ins., B&B. 1.50
Pfitzer Juniper, 18 to 24 ins., B&B. 2.00
Hetzi Juniper, 24 to 36 ins., B&B. 2.00
Irish (compacta), 30 to 36 ins., B&B. 1.50
Nick's Pfitzer (compacta), 18 ins., B&B. 2.00
Berk Juniper, 5 to 6 ft., B&B. 2.50
Mahonia (Ore. Holly), 18 to 24 ins., B&B. 2.00
White Spruce, 3 to 4 ft., B&B. 4.00
Norway Spruce, 4 ft., B&B. 4.00
Red-leaved Barberry, 18 to 24 ins., B&B. 1.25
Flowering Crabs, 5 to 6 ft., B&B. 2.00
Flowering shrubs, all kinds, B&B. 1.00
Silver Maple, soft, 10 to 12 ft., 1 1/2-in. cal., br., \$2.75.
Chinese Elm, 10 ft., 1 1/2-in. cal., br., \$2.00.

Cash only.

HILLSIDE NURSERIES, DUBLIN, IND.

SHEARED STOCK, GOOD BALL

Biota aurea nana, 24 to 30 ins. \$2.00
Biota excelsa, 24 to 30 ins. 1.35
Juniperus glauca hetzi, 18 to 24 ins. 1.70
Juniperus hibernica, 3 to 4 ft. 2.00
Juniperus excelsa stricta, 18 to 24 ins. 1.35
Norway Spruce, 15 to 18 ins. 1.00
Retinispora plumosa, 12 to 15 ins.80
Thuja occidentalis, 10 to 12 ins.60
Thuja occ. glob. woodwardii, 12 to 15 ins. 1.00
Thuja occ. pyramidalis, 30 to 36 ins. 2.00
Euonymus alatus, 18 to 24 ins. 1.00
Euonymus patens, 24 to 30 ins. 1.35
Euonymus japonica, 12 to 15 ins.80
White Pine, 18 to 24 ins. 1.35
Silver Maple, 8 to 10 ft. 2.00
LARGE SELECTION of sizes
In these and many other varieties.
Write for complete wholesale price list.

SO. JERSEY COLONIAL NURSERIES, INC.

R. D. 1, Phone YE 5-2356, Salem, N. J.

LANDSCAPE SPECIMEN EVERGREENS

Surplus stock

Dundee Juniper, 5 1/2 ft., \$9.00; 6 ft., \$10.00.
Pfitzer Juniper, 36 to 42 ins., \$4.00; 42 to 48 ins., \$5.00; 48 to 54 ins., \$6.00; 54 to 60 ins., \$7.00.
Von Ehron Juniper, 18 to 24 ins., \$2.75; 24 to 30 ins., \$3.25.
Juniperus glauca hetzi, 18 to 24 ins., \$2.75; 24 to 30 ins., \$3.25.

The above are heavy, well-sheared specimens.

EVERGREEN NURSERY

Phone CClearbrook 3-0838.

510 E. Rand Rd. Mount Prospect, Ill.

EVERGREENS, B&B

Biota aurea nana, 10 to 12 ins. \$0.60
Biota aurea nana, 15 to 18 ins. 1.00
Biota aurea nana, 21 to 24 ins. 1.70
Juniperus hetzi, 12 to 15 ins. 1.00
Juniperus hetzi, 15 to 18 ins. 1.35
Juniperus stricta, 12 to 15 ins. 1.00
Juniperus stricta, 15 to 18 ins. 1.35
Juniperus stricta, 18 to 24 ins. 1.70
Juniperus stricta, 24 to 30 ins. 1.70
Privet, Calif., 1-yr. 1.00
(25 bdl.), 18 to 24 ins. 1.00
Privet, Calif., 2-yr. 1.00
(12 bdl.), 24 to 30 ins. 1.00
Thuja globosa, 12 to 15 ins. 1.70
Thuja pyramidalis, 24 to 30 ins. 1.00
Chinese Elm, 5 to 6 ft. 1.00
Chinese Elm, 6 to 8 ft. 1.35
Silver Maple, 5 to 6 ft. 1.00
Weeping Willow, 5 to 6 ft. 1.00
Write for complete price list.

OAKVIEW NURSERY, INC.

Phone Canal 7-2450, Sewell, N. J.

EVERGREENS, B&B

Juniperus glauca hetzi, 24 to 30 ins. \$3.00
Juniper, Andorra, 3 to 3 1/2 ft. 3.00
Juniper, Hill's Golden, 15 to 18 ins. 2.50
Juniperus stricta, 3 to 4 ft. 2.25
Juniper, Polish, 24 to 30 ins. 2.25
Taxus media browni, 15 to 18 ins. 3.25
Taxus cuspidata, 15 to 18 ins. 3.25
Taxus media hicksii, 18 to 24 ins. 3.75
Thuja occ. woodwardii, 18 to 24 ins. 2.25
Thuja occ. nigra, 5 to 6 ft. 3.25
Thuja occ. Hetz's Wintergreen, 4 to 5 ft. 4.00
Thuja occ. elegantissima, 3 to 3 1/2 ft. 3.00
Ilex crenata convexa, 15 ins. 2.75
Ilex rotundifolia, 15 ins. 2.75
Many other plants not listed.

VARGO'S NURSERY, Plain Grove, Pa.

Phone Plain Grove 2488.

Located 4 miles north of Route 168 between Harlansburg and Slippery Rock, Pa.

Weekdays 4 P. M. to 8 P. M. Saturday 8 A. M. to 6 P. M. Sundays by appointment.

BEAUTIFUL WELL-SHAPED

WHITE PINE SCOTCH PINE

RED PINE NORWAY SPRUCE

WHITE-FLOWERING DOGWOOD

Transplanted. Have heavy matted root systems (2 to 10 ft.).

2 to 3 ft. \$2.50

3 to 4 ft. 3.50

4 to 5 ft. \$4.50 and 5.50

5 to 6 ft. 5.50 and 6.50

B&B to A. A. N. specifications or as desired.

Special prices on quantity orders. Special quotes on No. 2 plants.

WADE CHRISTMAS TREE FARMS

Route 1 Bellville, O.

Phone Butler, TU 3-3874, Van R. Wade

SPECIMEN EVERGREENS, B&B

Austrian Pine, 3 1/2 to 4 ft. \$3.25

Douglas Fir (blue), 30 to 36 ins. 3.50

Colorado Blue Spruce, 3 to 4 ft. 3.75

30 to 36 ins. 3.50

Black Hills Spruce, 3 to 4 ft. 3.50

Canadian Hemlock, 30 to 36 ins. 4.00

Also cut Scotch Pine Christmas trees. All stock well-sheared, good balls. Nursery pickup. Nursery located 10 miles north of Midway (Bedford interchange) exit of Pa. Turnpike. Phone Fishertown 839-2388. Mail address, New Paris, Pa.

HEMLOCK HILL NURSERY

Emory Ferre New Paris, Pa.

NORWAY SPRUCE

Well-sheared, full, heavy trees. Good color.

Each, 5-30 30-100

2 to 3 ft. \$2.25

3 to 4 ft. 3.00

4 to 5 ft. 4.00

5 to 6 ft. 5.25

Row-run and you dig your own, \$1.75 to \$3.00 each.

We have a large quantity.

We invite your inspection.

PAUL'S NURSERY

R. F. D. 3 Phone Shelby 3-2161 Shelby, O.

EVERGREENS, NICELY DUG, B&B

Juniper, Hetz, 18 to 24 ins. \$2.00 each

Juniper, Hetz, 24 to 30 ins. 2.50 each

Juniper, Andorra, 24 to 30 ins. 3.00 each

Thuja occ. elegantissima, 30 to 36 ins. 2.50 each

24 to 30 ins. 2.00 each

Thuja occ. 3 to 4 ft. 2.00 each

Taxus cuspidata, 15 to 18 ins. 2.75 each

Taxus hicksii, 18 to 24 ins. 2.75 each

Tsuga canadensis, 3 to 4 ft. 4.00 each

Pyracantha lalandi, 8-in. pots 2.00 each

BLODGETT NURSERIES

Route 152 Perkaskie, Bucks Co., Pa.

JUNIPERS, B&B

1000 Hetz, 18 to 24, 24 to 30, 30 to 36 ins.

500 Pfitzer, 15 to 18, 18 to 24 ins.

ARBORVITAE

3000 Woodward globe, 15 to 18, 18 to 24 ins.

3000 nigra, 18 to 24, 24 to 30, 30 to 36 ins.

1000 Pyramidal, 2 to 3 ft.

All above in pots also.

Other kinds in smaller lots. See our ad under Shrubs and Trees.

NAGLE'S NURSERY

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Phone Garfield 3-3739

NORWAY AND WHITE SPRUCE

Sheared, excellent color, well-dug.
1 1/2 to 2 ft., B&B. \$1.65
2 to 2 1/2 ft., B&B. 2.00
2 1/2 to 3 ft., B&B. 2.50
3 to 4 ft., B&B. 3.00
COLORADO BLUE SPRUCE
2 to 2 1/2 ft., B&B. 3.00
2 1/2 to 3 ft., B&B. 3.50
3 to 4 ft., B&B. 4.50

W. V. GRIFFIN

8 Elizabeth Ave. East Brunswick, N. J.

N. J. Turnpike exit 9, Phone CL 7-2484

NORWAY SPRUCE AND WHITE PINE, B&B

3 1/2 to 4 ft. \$2.35

4 to 5 ft. 2.65

5 to 6 ft. 3.35

6 to 7 ft. 4.25

Specimen trees expertly dug.

G. A. MARTIN & SON

1695 Beverly Rd. Fairmont, W. Va.

Phones 363-7783 or 363-1057

BROADLEAVED EVERGREENS

Daphne, 9 to 12, \$1.00; 12 to 15, \$1.25, B&B.

Pachistima cambyl (limited supply), 9 to 12, \$1.00; 12 to 15, \$1.00, B&B.

Scotch Heather (vulgaris rubra), 8 to 10, \$1.00, B&B.

Cash. F.O.B. our nursery.

MERRILL'S NURSERY

870 Madison Ave. Painesville, O.

SPECIMEN LANDSCAPE STOCK, B&B

Hemlocks, Scotch Pine, White Pine,

White Spruce, Black Hills Spruce,

Colorado Spruce, Balsam Fir,

Concolor Fir, Douglas Fir

and others.

Plan to visit us.

Write for list.

SUNNYBROOK NURSERIES

R. D. 2 Calicoon, N. Y.

SLASH PINES

In 1 gallon and egg can sizes, from 2 to 8 ft. Large quantities and special prices on quantity purchases. It is a fact that retail customers rarely buy one 1 gallon Pine; they buy several at a time just as they do hedge material. We'll be happy to send catalog.

PATTERSON NURSERY, R. 4, Albany, Ga.

TOP-QUALITY EVERGREENS, B&B

FOR LANDSCAPING, WELL-SHEARED,

FERTILIZED AND GROWN UNDER

CLEAN CULTIVATION.

JAPANESE BEETLE CERTIFIED.

SEND FOR PRICE LIST.

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Andorra Juniper, Pfitzer Juniper, Hetz Juniper, Norway Spruce, White Pine, Canada

Hemlock, Muehlenberg Spruce, Globe Arborvitae, Ilex,

pink and white Dogwood. Thousands of finished trees at prices you can afford to pay.

Send for wholesale price list. Deliveries arranged. Phone FR 3-3495.

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B&B ARBORVITAE AND JUNIPERS

Berkmann's, compacta, pyramidal and globe Arborvitae, Hetz, Pfitzer, compact

Pfitzer, Greek, Burk and Canaert Junipers.

Some Taxus and broad-leaved Evergreens.

Sheared stock, also potted liners.

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PINES, SCOTCH OR WHITE, B&B

Full shipment.

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Route 27 at Maynard-Sudbury Line

Sudbury, Mass.

Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the

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EVERGREENS, ALL HEAVILY SHEARED

Each

130 Blue Lawson, specimen, 3 1/2-4 1/2 ft. \$2.50

1000 Blue Lawson, specimen, 2 1/2-3 1/2 ft. 1.50

1000 spreading Yews, heavy, 15-18 ins. 2.25

500 spreading Yews, heavy, 18-24 ins. 2.75

Also larger sizes, including dwarf.

2000 Pfitzer Juniper, 24 to 30 ins., heavy 1.65

2000 Hetz Juniper, 24 to 30 ins., heavy 1.65

Many other varieties of Yews, Junipers,

Retinisporas and Ilex (must be moved). Some

good heavy liners that need moving at very

reasonable prices. Inspection invited.

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R. D. 2 Phone TEMple 4-7840 Jeanette, Pa.

CANADIAN HEMLOCKS, 4 AND 5 FT.

BALSAM FIRS, VARIOUS SIZES.

RHODODENDRONS, WHITE AND RED.

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Phone CY 5-7337

Taxus, Ilex, broad-leaved Evergreens, etc.,

in variety. Write for our latest list of liners

and finished stock.

Del-Mar-Va Nurseries, Box 3, Lincoln, Del.

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HARDY NATIVE FERNS

(DORMANT ROOTS)
Ostrich, Lady, Clayton and Maidenhair,
\$10.00 per 100, \$80.00 per 1000.
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Taylors Falls, Minn.

FERN PLANTS, \$15.00 per 100.

Fern leaves, \$30.00 per 1000.
Booklet on care and culture, \$2.00.
MRS. PAUL H. MARTIN
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FOLIAGE PLANTS

AUSTRALIAN TREE FERN LINERS
Available spring 1962, 10 per cent deposit
reserves your order.
\$40.00 per 100,
\$350.00 per 1000.

Available now, Philodendron liners, evansi,
giant solid leaf, \$25.00 per 100. Selloum, cut
leaved, \$12.50 per 100.
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816 West Kirby Tampa 4, Fla.

FRUIT AND NUT TREES

EAST MALLING ROOT STOCK

Perfectly rooted and graded.
2-yr. transplanted for grafting.
1-yr. layers for budding.

Prices on request.

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Lakeside, Mich.

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GARDENIAS

G. radicans and G. stricta nana, in 1 and 2
gallon and egg cans. Beautiful heavy plants,
the larger sizes suitable for landscape work.
Special prices on the 1 gallon size, in 1000
lots.
PATTERSON NURSERY, R. 4, Albany, Ga.

GARDEN ROOTS

NO. 1 RHUBARB DIVISIONS
Canada Red and MacDonald Red.
Fall or spring delivery.
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East Leroy, Mich.

GERANIUMS

2 1/4-IN. GERANIUMS, 2 1/4-IN.

Peat pots: Irene, Dark Red Irene, white
Castellane, Madonna, white; Salmon Irene,
Springtime, Penny Irene, Better Times, Genie
Irene, Radio Red and Appleblossom. Must
have six or more weeks on delivery dates.
Price, \$100.00 per 1000, picked up at our
plant. All shipping orders, \$110.00 per 1000,
F.O.B.

FAIR VIEW GARDENS, INC.

Fair View Rd. off of Sullivan Rd., Aurora, Ill.
Phone TWIn Oaks 2-0471.

QUALITY GERANIUM CUTTINGS

Unrooted, \$4.50 per 100, \$40.00 per 1000;
rooted, \$8.50 per 100, \$80.00 per 1000. Special
varieties slightly higher. Catalog of over
150 leading varieties free.
C. SECRIST, MUSCATINE, IA.

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GROUND COVERS

Myrtle (Vinca minor or common Periwinkle),
finest Ohio-grown; 20 to 25 lead
clumps, \$50.00 per 1000. Quick delivery.
Pachysandra terminalis, 1-yr. heavy cuttings,
\$50.00 per 1000.

English Ivy, 1 to 2-yr. heavy cuttings,
good roots, \$50.00 per 1000.
Baltic Ivy (Hedera baltica), 1-yr. rooted
cuttings, \$65.00 per 1000.

Mist propagated outdoors.
Euonymus coloratus (lush), 1 to 2-yr.
rooted cuttings, \$65.00 per 1000.

Half's Lonicera halliana (Honeysuckle),
3-yr. branched, standard 15 to 20 ins., \$47.50
per 1000; over 4000, \$45.00 per 1000.

Euonymus radicans, 2-yr., \$50.00 per 1000.
H. C. WAUGH
Upper River Rd. Gallipolis, O.
Phone GI 6-1799

GROUND COVERS

Vinca minor (Myrtle), field-grown, \$15.00
per 100, \$120.00 per 1000.
Euonymus coloratus, B.R. field-grown,
2-yr., \$40.00 per 100.
Cash, F.O.B. our nursery.

MERRILL'S NURSERY
870 Madison Ave. Painesville, O.

GROUND COVERS

2000 Euonymus vegetus, 2 1/4-in. peat pots,
\$15.00 per 100. No shipping.
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Phone Park 4-1764

Hardy Myrtle (Vinca minor), plants with
20 leads or more and good roots, \$5.00 per
100, \$45.00 per 1000. Pachysandra, sand-
rooted cuttings, \$40.00 per 1000. English Ivy,
sand-rooted cuttings, \$40.00 per 1000. Cash.
Also potted stock of all items listed.
Samuel I. Minder, 1248 Wabank Rd., Lan-
caster, Pa. Phone EX 3-6347.

EUONYMUS, COLORATUS AND DUPONT.
Two of the best for this purpose. Special
prices for quantity purchases.
PATTERSON NURSERY, R. 4, Albany, Ga.

Vinca minor Bowles variety, 2 1/4-in. pots,
\$18.00 per 100, \$150.00 per 1000.
Gulf Stream Nursery, Inc., Wachapreague, Va.

HARDWOOD CUTTINGS

HARDWOOD YEW CUTTINGS

Unrooted. Hand-trimmed from good stock.
Taxus cuspidata, spd. Taxus brownii
Taxus hicksii Taxus intermedia
Taxus hatfieldii

\$20.00 per 1000, F.O.B. Cash in advance.
Shipped November 15 to January 15. No
packing charge.
JOSEPH HOLLER FLORIST & NURSERY
Paris, Ill.

HARDY PLANTS

HARDY FIELD-GROWN PERENNIALS

Aluga metellica, Anchusa, Aquilegia, sep-
arate colors; Arenarias (Sandwort), Astilbes,
Campanulas, Carnations, Chives, Chrysanthem-
ums, Delphinium Pacific Hybrids, 10 sepa-
rate colors; Dianthus, Dicentra spectabilis,
Digitalis, Doronicums, Gaillardias, Helleborus
niger, Iberis sempervirens, English Lavender,
Lythrum, Russell Lupines, separate colors;
Myosotis, Oriental Poppies, Phlox subulata,
15 varieties; Primroses, Pyrethrums (Dai-
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varieties; Sweet Williams, Thymes, Tritomas,
Violas, Violets.

If you have not received our list, send for
it now. 100 more good varieties.

Special prices in 1000 lots.
26-picture sales color chart, ready to hang,
sent with every order of \$10.00 or more.

All plants freshly dug for each order.
Shipping season begins September 15.

GEORGE FRANK & SON
Penfield, N. Y.

PERENNIALS

Ready for landscaping size.
Heavy ONE-YEAR-OLD field-grown plants.
Over 525 choice HARD TO GET perennials
grown exclusively by

SPRINGBROOK GARDENS, INC.

Mentor, O.
Send for price catalog.

FUNKIAS

Per 100

Subcordata grandiflora alba, 1 yr. ..\$35.00
Variegata, 1-yr. 18.00
Thos. Hogg, 1-yr. 25.00
Lanceolata, divided clumps 18.00
Cash, F.O.B. our nursery.

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GEUM WILTON RUBY

A deep red hardy variety resembling Fire
Opal. This attractive variety is always in
short supply. This is only one of hundreds
of interesting hardy plants in our new price
list. Send for it today.

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Kensington, Conn.

BLEEDING HEARTS (SPECTABILIS)

	25	100	1000
2 to 3 eyes.....	\$ 5.50	\$19.00	\$170.00
3 to 5 eyes.....	9.00	30.00	250.00
5 to 8 eyes.....	12.00	40.00	350.00

For larger quantity, write for special prices.
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Crescent, Ia.

HARDY PERENNIALS

All sand-grown under irrigation, in rows
properly spaced for root development. Order
now for early fall and early spring, 1962 de-
livery. New wholesale list available.

RICHARDS GARDENS

Box AN Plainwell, Mich.

BETTER PERENNIAL PLANTS

with that wonderful root system.
Over 500 varieties. Write for catalog and
FREE DISPLAY SHEET IN COLOR.

WELLER NURSERIES

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PERENNIALS

Write for trade list.
PITZONKA'S PANSY FARM & NURSERY
Bristol, Pa.

America's best source
for Hardy Plants is
THE WAYSIDE GARDENS
Mentor, Ohio
Write for Trade List.

SPECIALISTS IN HARDY PERENNIALS

Ask for wholesale offer.
PEARCE SEED CO., Moorestown, N. J.

FIELD-GROWN HARDY PLANTS

KINGWOOD NURSERIES
Mentor, O.

HARDY PERENNIALS AND LINERS

Mountain-grown. Ask for list.
AVALON MOUNTAIN GARDENS, Dana, N.C.

HEATHERS

ERICA CARNEA WINTER BEAUTY

(Deep pink winter blooming Heather)
Blooms constantly outdoors during cold
weather, from early December to April.
Flowers remain on plants until the weather
becomes warm in April. An ideal plant for
window boxes and under planting in founda-
tion plantings.

2-yr. TT, \$50.00 per 100, \$450.00 per 1000.
WHERE QUALITY EXCELS. No charge
for packing.

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HEDGE PLANTS

Amur River Privet (amurensis), 1-yr. root-
ed cuttings, \$35.00 per 1000; 2-yr., \$45.00 per
1000.

California Privet (ovallifolium), 1-yr. root-
ed cuttings, \$45.00 per 1000.

Rosa multiflora japonica, for hedge or live
fence; 2-yr., \$35.00 per 1000; 3-yr., 4 ft.
high, cut back, \$45.00 per 1000.

Euonymus patens, 2-yr., \$45.00 per 1000.

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Box 41, Upper River Rd. Gallipolis, O.

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HELLEBORUS NIGER

(Christmas Rose)

1-yr. sdgls., \$15.00 per 100, \$125.00 per 1000.
*2-yr., T, \$40.00 per 100, \$350.00 per 1000.

*Suitable for mail order trade and to pot
up for roadside stand sales.

WHERE QUALITY EXCELS. No charge
for packing.

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408 Turner Rd. Newport, R. I.

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HEMEROCALLIS (DAY LILIES)

Athlone, Baggette, Patricia, Wau-Bun,
Colonial Dame, Dauntless, Hesperus, Vesta.
\$2.00 per 10, \$15.00 per 100.

Black Falcon Dominion, Dorothea, Honey
Redhead, Mrs. Hugh Johnson, Pink Charm,
Duchess of Windsor, Hyperion, Royal Ruby,
Mrs. B. F. Bonner, Georgia, Su-Lin.

\$2.50 per 10, \$20.00 per 100.
Cellini, Naranja, Salmon Sheen, Persian
Princess, \$3.00 per 10, \$25.00 per 100.

5 at 10 rate; 25 at 100 rate.

HURLEY NURSERY, PAINESVILLE, O.

HEMEROCALLIS

300 varieties. The best of new and old.
Heavy quality stock at bargain prices. Mixed
stock as low as 3c each.

RIEDEL PLANT CO., EXPERIMENT, GA.

HEMEROCALLIS

Send for wholesale list.
MIDDLEPEN PLANTATION
Orangeburg, S. C.

Hardy Hemerocallis.

Write for wholesale list.
Ortonville Nurseries, Ortonville, Mich.

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AMERICAN HOLLY

(Ilex opaca)

Named varieties, northern origin, specimen
plants, 3 to 8 ft., some larger: Betsy, Cape
Cod, dwarf; Cardinal, Christmas Carol, Clark,
Farage, Goldie, Griscom, Hedgeholly, Mae,
Manig, Mrs. Santa, Torchbearer, Westcott,
Yule. Small numbers others, also select
males. Plants well-filled, free of leaf spot,
excellent color, mostly well-berried.

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ILEX OPACA

CUTTING WOOD

20 named varieties. Very hardy.
Also male and female, unnamed.
WRITE FOR PRICES
and SHIPPING SCHEDULE

HEMLOCK HOLLOW NURSERY

R. D. 3 Wexford, Pa.

AMERICAN HOLLY

500 Ilex opaca femina, 12 to 15 ins., lining-
out or canning stock. Grown in peat pots,
1-yr. and field row 1-yr., not still intact,
\$35.00 per 100. Shipping weight about 1/2 lb.
each.

CARL WAGNER & SONS NURSERY
R.F.D. Monroeville Aura, N. J.

HOLLY—Continued

ENGLISH HOLLY
2½-in. pots, 8 ins. tall, 30c; 10 ins. tall, 25c; 12 ins. tall, 40c; 4-in., well-branched, 75c. 4-in. pots, *Osmantinus ilicifolius* variegatus, well-branched, 75c.
Ready now. Cash with order, please.

KRUSCHKE GREENHOUSES
Route 2 Clackamas, Ore.

ILEX OPACA
HARDY PROVEN VARIETIES
WHOLESALE SUPPLIERS
OF LINING-OUT STOCK
Write for our price list.

F. R. GENARD
Box 64 New Lisbon, N. J.

American Holly, container-grown.
Please see advertisement on page 72.
Templeton, Phytotelektor, Winchester, Tenn.

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HONEYSUCKLES
Lonicera japonica halliana, extra-heavy No. 1, 3 and 4-yr., 18 to 24-in. field plants, 3, 4 to 6 leads, \$40.00 per 1000; lighter grade, \$30.00 per 1000; sample, 100, \$4.00. Experienced labor for grading and packing quantity orders. Immediate shipment. No order too large. Phone OR 2-4612.
ROBINSON NURSERY CO., Greenville, Ga.

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IRIS SPECIAL
100 beautiful Irises in mixture, guaranteed all different and guaranteed to please, plus one each of **HOLY SMOKE** and **IDAHO GOLD**, 1961 H. M. WINNERS, all for \$10.00. Write for our **SEPTEMBER CLOSE-OUT AND SURPLUS** list. Here is your chance to stock up on a lot of fine Irises at a small fraction of the regular price.
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SURPLUS IRISES
\$7.50 per 100, express collect.
Write for list of varieties.
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HARDY BALDIC IVY
2¼-in. pots.
\$14.00 per 100, \$125.00 per 1000.
Cash with order, 5 per cent discount; ½ deposit with all orders, balance at shipping time. 300 at 1000 rate.

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ENGLISH IVY
2¼-in. pots, 15-in. runners,
\$10.00 per 100,
\$90.00 per 1000.
SUNNYBROOK FARMS NURSERY
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BALDIC IVY
Thorndale, sub-zero strain, landscaping size, 2-in. pots, \$14.00 per 100, \$125.00 per 1000; rooted cuttings, \$7.50 per 100. New Wilson strain, pots, 15c; rooted cuttings, 8½c.
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LAWN GRASS AND SEED

FORESTRY'S LAWN SEED MIXTURES
13 different lawn seed mixes to cover all types of planting, available for fall delivery. Write for free list.

FORESTRY ASSOCIATES
P. O. Box 1069 Allentown, Pa.
Phone area code 215 434-5708

"PURE KY." BLUE GRASS LAWN SEED
Now is the time of the year to sow.
100 lbs., \$40.00; 50 lbs., \$21.00; 25 lbs., \$11.00; 10 lbs., \$5.00. F.O.B. here, subject to change.

WALNUT LAWN FARM
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Turn Stock into Dollars
by Listing It in the Classified Ads
of the American Nurseryman.

LINING-OUT STOCK

ROOTED AZALEA CUTTINGS
Ready to be transplanted into beds
3 to 5-in. cuttings, \$36.00 per 1000.

INDICA AZALEAS
Formosa Judge Solomon
Lawsal
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Christmas Cheer
Coral Bells
Hexe
Hinodagiri
Pres. Clay
Pride of Mobile
Southern Charm
Massasoit
Pink Ruffle
Polar White
Snow.

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**CALIFORNIA'S FINEST
2¼-IN. LINING-OUT STOCK**

	Per 100
<i>Abelia grandiflora</i>	\$16.00
<i>Agapanthus africanus</i>	16.00
<i>Albizia julibrissin</i>	16.00
<i>Aralia sieboldii</i>	15.00
<i>Asparagus plumosus</i>	18.00
<i>Bignonia violacea</i>	18.00
<i>Bougainvillea Barbara Karl</i>	18.00
<i>Bougainvillea Scarlett O'Hara</i>	18.00
<i>Bougainvillea Temple Fire</i>	18.00
<i>Callistemon viminalis</i>	15.00
<i>Ceratania alilqua</i>	18.00
<i>Cocculus laurifolius</i>	18.00
<i>Dracaena indivisa</i>	16.00
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<i>Euonymus Silver King</i>	16.00
<i>Ficus nitida</i>	18.00
<i>Fraxinus uhdei</i>	15.00
<i>Gardenia veitchii</i>	16.00
<i>Grevillea robusta</i>	15.00
<i>Hibiscus Agnes Gault</i>	16.00
<i>Hibiscus Brilliant</i>	16.00
<i>Hibiscus Kona</i>	16.00
<i>Jasminum magnificum</i>	20.00
<i>Juniperus chin. pfitzeriana</i>	16.00
<i>Lagerstroemia indica rosea</i>	18.00
<i>Lantana Christine</i>	14.00
<i>Libocedrus decurrens</i>	15.00
<i>Philodendron tenax</i>	15.00
<i>Liquidambar styraciflua</i>	15.00
<i>Magnolia grandiflora</i>	16.00
<i>Myrsine africana</i>	16.00
<i>Myrtus communis compacta</i>	16.00
<i>Passiflora pteridii</i>	18.00
<i>Philodendron tomentosum</i>	16.00
<i>Pinus contorta</i>	15.00
<i>Pinus canariensis</i>	16.00
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<i>Pinus radiata</i>	16.00
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	2¼-IN. ROSE POTS
<i>Bauhinia purpurea</i>	\$18.00
<i>Caryota mitis</i> (Fish-tail Palm)	25.00
<i>Cedrus deodara</i>	20.00
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<i>Dracaena draco</i>	25.00
<i>Erythea armata</i>	25.00
<i>Ficus benjamina</i>	20.00
<i>Livistonia chinensis</i>	25.00
<i>Paurolis wrightii</i> Palm	50.00
<i>Phoenix canariensis</i>	25.00
<i>Pinus elegans</i>	25.00
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FREE PACKING
WRITE FOR OUR PRICE LIST
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2154 Peck Rd. Monrovia, Calif.

	LINING-OUT STOCK	Each
5000 <i>Taxus brownii</i> , 2¼-in. pots, 2-yr.	20c	
1700 <i>Taxus brownii</i> , 2¼-in. Jiffy Pots, 2-yr.	22c	
900 <i>Taxus cusp.</i> , 2¼-in. pots, 2-yr.	18c	
7100 <i>Taxus cusp.</i> , 2¼-in. pots, 2-yr.	20c	
5300 <i>Taxus cusp.</i> , 2¼-in. pots, 2-yr.	23c	
350 <i>Taxus cusp.</i> , 3-in. pots, 3-yr.	25c	
3500 <i>Taxus cusp.</i> , 3-in. pots, 3-yr.	27c	
2048 <i>T. densiformis</i> , 2¼-in. pots, 2-yr.	22c	
1620 <i>T. densiformis</i> , 3-in. pots, 2-yr.	28c	
1500 <i>Taxus hicksii</i> , 2¼-in. pots, 2-yr.	20c	
2700 <i>Taxus hicksii</i> , 3-in. pots, 2-yr.	25c	
590 <i>Taxus hicksii</i> , 2½-in. pots, 3-yr.	25c	
1000 <i>Taxus hicksii</i> , 2½-in. bands, 3-yr.	27c	
1100 <i>T. hieldii</i> , 2¼-in. pots, 2-yr.	22c	
1200 <i>Taxus, Moon's</i> , 2¼-in. pots, 2-yr.	20c	
470 <i>Taxus, Moon's</i> , 3-in. pots, 2-yr.	25c	
700 <i>Taxus, Seban</i> , 2¼-in. pots, 1-yr.	20c	
900 <i>Taxus, Seban</i> , 2¼-in. pots, 2-yr.	22c	
5400 <i>Taxus, Seban</i> , 3-in. pots, 2-yr.	25c	
4300 <i>Taxus, Seban</i> , 3-in. Jiffy, 2-yr.	25c	
500 <i>Taxus wari</i> , 2¼-in. pots, 2-yr.	22c	
1000 <i>Juniperus hetzi</i> , 2¼-in. bands, 2-yr.	15c	
750 <i>Juniper, Pfitzer</i> , 2¼-in. pots, 2-yr.	15c	
650 <i>Jap. Red Maple</i> , 3-in. pots, 2-yr.	37c	
900 <i>Jap. Red Maple</i> , 3-in. pots, 1-yr.	30c	
600 <i>Euonymus sieboldii</i> , 2¼-in. pots, 1-yr.	12c	

(like coloratus)
BEDDED LINERS
TWICE TRANSP. (HEAVY GRADE)
1000 *Taxus (Seban)* intermedia 35c | || 1500 *Taxus cuspidata* | 30c | |
1000 *Taxus densiformis*	40c	
600 *Taxus hicksii*	37c	
1500 *Juniper, Pfitzer*, 12 ins. and up extra heavy (worth more)	25c	

PEONY ROOTS
Young, 3 to 4-yr. Per 100
Felix Crouse, red; 3 to 5-eye \$30.00 | || Pres. Taft, light pink; 3 to 5-eye | 30.00 | |

ROOTED CUTTINGS Per 1000
Juniperus hetzi \$65.00 | || *Juniperus pfitzeri* | 55.00 | |

Usual trade terms prevail. Packing at cost for orders of less than \$100.00; free for over that amount.

LITTLEFORD NURSERIES
Vincennes, Ind.

LINING-OUT STOCK

All plants bare-root. Average Evergreens, 6 to 8 ins. Shrubs, etc., 8 to 10 ins. or better.

	EVERGREENS
<i>Andorra Juniper</i>	\$0.05
<i>Armstrong Pfitzer Juniper</i> .....	.08
<i>Blue Hetz Juniper</i> .....	.05
<i>Burk Juniper</i> , upright tree .....	.10
<i>Compact Pfitzer Juniper</i> .....	.08
<i>Gold Tip Am. Arborvitae (lutea)</i> .....	.12
<i>Hill's Dk. Green Am. Arborvitae</i> .....	.12
<i>Hillbush Juniper (virginiana)</i> .....	.10
<i>Pfitzer Juniper</i> .....	.06
<i>Procumbens Juniper</i> .....	.10
<i>Rosefield's Montana Green (scopulorum)</i> .....	.30
<i>Rosefield's Moonglow (scopulorum)</i> .....	.30
<i>Savin Juniper</i> .....	.06
<i>Taxus cuspidata</i> .....	.10
<i>Thomas Blue Creeper</i> .....	.10
<i>Von Ehron Juniper</i> .....	.06

	DECIDUOUS
<i>Althaea Lucy</i> , red .....	.07
<i>Forsythia Arnold's Brilliant</i> .....	.06
<i>Forsythia Arnold's Dwarf</i> .....	.06
<i>Forsythia Arnold's Giant (semi-dwarf)</i> .....	.06
<i>Forsythia Beatrix Farrand</i> .....	.04
<i>Forsythia Lynwood Gold</i> .....	.04
<i>Forsythia Spring Glory</i> .....	.04
<i>Blue Spiraea (Caryopteris)</i> .....	.05
<i>Cornus Gold Twig</i> .....	.07
<i>Deutzias</i> , gracilis and gr. rosea .....	.07
<i>Euonymus alatus compactus</i> .....	.10
<i>Hydrangeas</i> , A.G. or P.G. .....	.08
<i>Hypericum</i> , Hidcote or kahlianus .....	.06
<i>Honeysuckle</i> , Zabel, Bush .....	.04
<i>Honeysuckle</i> , heckrotti, evbl. vine .....	.05
<i>Honeysuckle</i> , Clavey's Dwarf .....	.05
<i>Privet</i> , Golden Vicary, all yellow .....	.07
<i>Privets</i> , Lodense or Regels .....	.04
<i>Prunus cistena</i> , 1-yr., field tr., own-root .....	.20
<i>Ribes alpinum</i> .....	.08
<i>Spiraea Anthony Waterer</i> .....	.10
<i>Spiraea macrothyras</i> , evbl. pink plumes .....	.05
<i>Viburnum op. ster.</i> (Snowball) .....	.10
<i>Viburnum trilobum</i> .....	.08
(Am. Cranberry Bush) .....	.08
<i>Viburnum tomentosum</i> .....	.10
<i>Weigela vaniciei</i> .....	.07
<i>Weigela</i> , variegated leaves .....	.07
<i>Willow</i> , Giant French Pussy .....	.08
<i>Willow</i> , Golden Niobe Weep, cut back .....	.07
<i>Willows</i> , Blue Leaf Arctic and Purple Leaf .....	.06

	BROADLEAFS
<i>Euonymus carrierei</i> .....	.04
<i>Euonymus coloratus</i> .....	.04
<i>Euonymus patens</i> Flagpole, small leaf .....	.04
<i>Euonymus patens</i> Newport, medium leaf .....	.04
<i>Euonymus patens</i> Owen, small leaf .....	.04
<i>Euonymus patens</i> (radicans erectus), small leaf .....	.04
<i>Euonymus radicans</i> , upright (Sarcocoe) .....	.07
<i>Euonymus radicans</i> vegetus .....	.07
<i>Honeysuckle</i> (vine), Texas (Purple Leaf) .....	.04
<i>Honeysuckle</i> (vine), Gold Net .....	.06
<i>Pyracantha Kanan</i> , heavy berried, hardier lalandi .....	.05
<i>Pyracantha lalandi</i> .....	.05
<i>Pyracantha pauciflora</i> , small shiny leaf .....	.05

PERENNIALS
Phlox Scarlet Flame, newest and brightest04 | || Less than 300 total order, 2c more per plant. Less than 50 of any variety, 4c more per plant. | | |

MCINCH GREENHOUSES
St. Joseph, Mo.

Ready now, from open sand-peat beds
Abelia grandiflora, 4 ins. 3c | || *American Boxwood*, 4 ins., branched | 6c | |
Am. Boxwood, 6 to 7 ins., branched	12c	
Old English Boxwood, 4 ins., branched	6c	
6 to 7 ins., branched	12c	
Euonymus coloratus, ground cover, 5 to 7 c	3c	
Euonymus patens, 5 to 7 ins.	3c	
Euonymus radicans, upright (Sarcocoe)	5c	
5 to 7 ins.	5c	
Ilex burfordii, 3 to 5 ins.	4c	
Ilex rotundifolia, 3 to 5 ins.	4c	
Wax Ligustrum lucidum, 3 to 4 ins.	2½c	
Pfitzer compact Juniper (Nick's), 6 to 8 ins.	8c	

E. F. DuBose Nursery, Huntsville, Ala.

FINER LINERS, ORNAMENTALS
In addition to top-quality liners of the best and hardest varieties, you get A-1 super-service and personal attention. May we send you our list? Surplus clearance prices on many good items.
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Our catalog lists over 70 choice varieties of liners, including many desirable varieties not often found. We'll be happy to mail you a copy on request.
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Will custom propagate for you, your cuttings in our modern greenhouse. Cost 2c each.
A Ondersma & Sons Nursery, 1310 28th St. S. E., Grand Rapids, Mich.

LINERS OF THE BETTER KINDS
Novelties and rare items.
Write for price list.
GULF STREAM NURSERY, INC.
Wachapreague, Va.

HEAVY QUALITY LINERS

250 at the 1000 rate.

Each, Each,
per 100 per 1000

ILEX bullata, 3-yr.		
6 to 12 ins.	\$.35	\$.30
8 to 12 ins.	.45	.40
L. crenata, upright, select 3-yr. cuttings (grown from select plants)		
6 to 12 ins.	.35	.30
8 to 12 ins.	.45	.40
Ilex glabra		
8 to 12 ins.	.40	.35
PIERIS japonica, 3-yr., heavy		
8 to 12 ins.	.75	.65
Pieris japonica compacta		
6 to 8 ins.	.70	...
8 to 10 ins.	.85	...
TAXUS baccata repandens, 3-yr., TT		
6 to 8 ins.	.55	.50
8 to 10 ins.	.70	.60
T. cusp. capitata, 4-yr., field-grown, TTT (from cuttings)		
8 to 12 ins.	.35	.30
12 to 18 ins.	.50	.40
18 to 24 ins.	.60	.50
T. hicksii, 4-yr., heavy plants, sheared, TTT		
6 to 8 ins.	.35	.30
8 to 12 ins.	.50	.40
12 to 18 ins.	.70	.60
1-YR. BEDDED STOCK (Grown from heavy cuttings.)		
TAXUS capitata	\$.20	\$.17½
TAXUS cuspidata	.17½	.16
TAXUS columnaris	.22½	.20
TAXUS repandens	.22½	.20
TAXUS hicksii	.17½	.16
TAXUS hatfieldi	.17½	.16
CHAMAECYPARIS		
obtusa crispis	.20	.17½
CHAMAECYPARIS		
plisifera aurea	.17½	.16
CHAMAECYPARIS plumosa	.17½	.16
CHAMAECYPARIS		
plumosa aurea	.17½	.16
CHAMAECYPARIS		
filifera aurea	.20	...
CHAMAECYPARIS squarrosa	.17½	...
CHAMAECYPARIS		
cyano viridis	.20	.17½
JUNIPERUS hetzi	.17½	.16
JUNIPERUS stricta	.17½	...
JUNIPERUS depressa plumosa	.17½	...
THUJA occidentalis comp.	.17½	...
THUJA nigra	.20	.17½
THUJA plicata	.20	.17½
BULK'S NURSERIES, INC.		
610 W. Montauk	Babylon, L. I., N. Y.	

MAGNOLIAS

MAGNOLIA GRANDIFLORA

2½-in. pots.

8 to 10 ins.	12c
10 to 16 ins.	16c
16 to 20 ins.	18c
Qt. cans	
12 to 16 ins.	20c
20 to 30 ins.	25c
30 to 36 ins.	30c
B&B stock	
2 to 3 ft.	\$1.50
2 to 4 ft.	2.00
4 to 5 ft.	3.00
5 to 6 ft.	4.00
6 to 7 ft.	5.25
7 to 8 ft.	6.75

The above liners were grown in the open and are hardy. The B&B stock will be wrapped in rot-proof burlap and string if so desired. Plants not pruned.

BIG RIVER NURSERY, DUNDEE, MISS.
Phone 572-R4, Tunica, Miss.

MAGNOLIA GRANDIFLORA

Fine, large trees in 1 gallon Lerio cans, in large quantities. Our descriptive catalog will be sent promptly on request.
PATTERSON NURSERY, R. 4, Albany, Ga.
Magnolia grandiflora, beautiful old-fashioned evergreen tree. Stocky plants, 6 to 8 ins., \$12.00 per 100, \$100.00 per 1000; 10 to 15 ins., \$17.50 per 100.
Tidwell Nurseries, Greenville, Ga.

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MAHONIAS, BEALEI and FORTUNEI
In 1 gal. cans, 75c. Fine, heavy plants now in bloom. Will berry heavily.
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MAPLES
COLLECTED ACER
RUBRUM and SACCHARUM
from whips to 4-in. caliper.
CURTIS NURSERIES, INC.
Calicoon, N. Y.

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HARDY MYRTLE (VINCA MINOR)

20 to 30 leads, \$8.00 per 100.
500 to 2500, \$60.00 per 1000.
2500 to 5000, \$50.00 per 1000.
Cash or established credit.
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ORANGE TREES

MINIATURE ORANGE TREES

CALAMONDIN

6-in. plastic pots, 18 to 24 ins. tall, with multiple fruit, shipped with fruit green. Fruit will mature and color in 3 to 4 weeks after receipt of shipment.

\$1.75 each, packed 9 per carton.
Immediate delivery to all states except Calif., Ariz., Tex. and La. These are beautiful shapely plants that SELL on sight.
VOSTERS NURSERIES & GHSES., INC.
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400,000

PACHYSANDRA TERMINALIS

Strong rooted cuttings, ready for September 15, 1961, shipment.

\$38.00 per 1000;
\$35.00 per 1000 for 5000 lots.

Quantity buyers, write for prices.

Check with order. Free samples.

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1-yr., frame-grown, strong plants,
\$6.50 per 100, \$60.00 per 1000.
Cash with order, 5 per cent discount; ½ deposit with all orders, balance at shipping time, 300 at 1000 rate.

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1-yr., field-grown \$ 5.00 \$ 45.00
per 1000 for 5000 or more. Order now for immediate delivery.
3000 or more plants 42.50
2-yr., field-grown 8.50 75.00
2½-in., pot-grown 11.50 105.00
HANSEN BROS. NURSERIES, INC.
Narberth, Pa.

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1-yr.-old, frame-grown, well-rooted cuttings, \$5.50 per 100, \$43.00 per 1000; \$40.00 per 1000 for 5000 or more. Order now for immediate delivery.

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Strong rooted cuttings, \$4.25 per 100, \$40.00 per 1000. No C.O.D. orders.
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6 Smart Ave. Yonkers, N. Y.

Pachysandras, strong plants, grown in soil frames with light shade. First-class stock, \$6.50 per 100, \$53.00 per 1000; \$50.00 per 1000 for 5000 or more, including good packing. Peekskill Nursery, Shrub Oak, N. Y.

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Miller Park Franklin, Pa.

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Large 3 to 5-eye divisions, from our northern nursery at Geneva, N. Y. Quality better than ever. Write for complete list and our outstanding list of brilliant new hybrid Peonies. Packing extra at cost.

	Each, per 1000
Baroness Schroeder	\$.32
Cornelia Shaylor	.38
Festiva Maxima	.32½
Felix Crousse	.32½
Hesperania	.26
Hansina Brand	.70
Mrs. J. V. Edlund	.65
Myrtle Gentry	.47½
Reine Hortense	.27½
Victory	.42½
Red	.30
White	.23½
Pink	.21½
Successor to Styer's Nurseries	
J. FRANKLIN STYER	
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PEONIES

Adolphe Rousseau, Baroness Schroeder, Duchesse de Nemours, Festiva Maxima, Sarah Bernhardt, Lady Alex. Duff, Marie Lemoine, Mons. Jules Elie, Reine Hortense, 3-yr.-old, whole clumps, not divided, 6 eyes and up, \$75.00 per 100, \$700.00 per 1000; divisions, 3 to 5 eyes, \$40.00 per 100, \$350.00 per 1000.
VERKADE'S NURSERIES, WAYNE, N. J.

PEONY TENUIFOLIA

Large 3 to 5-eye divisions. Dark green, finely divided foliage. Blooms early with large, dark red single blooms. \$75.00 per 100. Cash, please. September delivery.

WY'S GARDENS
East Grand Forks, Minn.

PEONIES

Each, 10 100 1000

ALBERT CROUSSE, shell-pink; late	\$.40	\$.35	\$.30
ALESIA, a new Peony which we now have in quantity. Immense creamy white on strong stem. Excellent bud and keeper	.90	.80	.70
BAR. SCHROEDER, white	.50	.45	.40
EDULIS SUPERBA, rose	.40	.35	.32
EDULIS SUPREME (a new Cottage Gardens introduc- tion, 1961), a rose-pink with a tight, slow-opening bud, producing perfect, long-lasting flowers. A beautiful color and shape.	2.50	2.25	1.75
FELIX CROUSSE, red	.50	.45	.40
FELIX SUPREME (Cottage Gardens introduction, 1955), an improved Felix Crousse; tight bud, an ex- cellent keeper, rich ruby- red. This flower does not "blue," \$10.00 each.	.50	.45	.40
FRANCES WILLARD, white	.50	.45	.40
INSPECTEUR LAVERGNE, deep red; early	.55	.50	.45
KARL ROSENFELD, red	.50	.45	.40
KELWAY'S GLORIOUS, creamy white	1.00	.80	...
LeCYGNE, creamy white	1.50	1.10	1.00
LONGFELLOW, crimson	.55	.50	.45
MME. CLAUDE TAIN, im- proved Bar. Schroeder; large, perfectly shaped white flower	.65	.60	.55
MME. DUCEL, pink	.45	.40	.35
MARY BRAND, rich deep red	.80	.70	.60
MARTHA BULLOCK, pink	.65	.60	.55
MONS. JULES ELIE, pink	.45	.40	.35
MONS. MARTIN CAHUZAC, deep crimson; early	.75	.65	.60
PHILIPPE RIVOIRE, dark crimson	1.00	.90	.80
REINE HORTENSE, pink	.45	.40	.35
RIO GRANDE, large dark crimson	.75	.65	.60
SOLANGE, creamy white	.60	.55	.45
SARAH BERNHARDT, pink	.45	.40	.35
WALTER FAXON, coral-pk.	.55	.50	.45
JAPANESE TYPE			
ECSTASY, satiny pink	.50	.45	.40
EVA, brilliant coral-pink	.55	.50	.45
MR. G. F. HEMERIK, enor- mous pink	.55	.50	.45
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ROSY DAWN, white	.65	.60	.55
VIRGINIA DARE (Cottage Gardens introduction, 1959), an exquisite single white; good size and ex- cellent keeper for use as a cut flower	1.25	.95	.90
Ask for special quotation on large quan- tity rate. General price list on request.			
THE COTTAGE GARDENS, INC. 2707 W. St. Joseph St. Lansing 17, Mich. Nick I. W. Kriek Harold E. Hicks Phone IV 2-9021			

PEONIES

Strong 3 to 5-eye divisions, from young plants. Packing free for cash with order, otherwise at cost. 25 or more of a variety takes the 100 rate.

DOUBLE FLOWERING

Each, 10 100

Baroness Schroeder, flesh to white	\$.45	\$.40
Canari, sulphur to pure white	.40	.35
Duc de Cazes, carmine-red to rose	.45	.40
Duchesse de Nemours, ivory-white	.45	.40
Duchesse d'Orleans, soft pink	.35	.30
Duke of Wellington, pure white	.45	.40
Edulis Superba, excellent deep pk.	.35	.30
Felix Crousse, ruby-red	.45	.40
Festiva Maxima, white, center fleeced red	.45	.40
Frances Willard, bluish white	.45	.40
Francois Ortegat, crimson	.35	.30
Karl Rosenfeld, velvety dark crimson	.45	.40
Le Cygne, excellent pure white	1.75	1.35
Lillian Wild, very large flesh to white	.60	.50
Longfellow, bright crimson	.75	.65
Mme. de Verneville, fragrant wh.	.40	.35
Martha Bullock, old rose pink	.80	.75
Mary Brand, dark clear crimson	.70	.60
Mons. Jules Elie, large silvery pk.	.45	.40
Mrs. F. D. Roosevelt, coral-pink	2.50	...
Ozark Beauty, compact radiant pk.	.40	.35
Philippe Rivoire, dark crimson	.90	.85
Queen Emma, satiny light pink	.35	.30
Sarah Bernhardt, appleblossom- pink	.45	.40
Therese, carmen-pink to lilac	.75	.60
Venus, large yellow-pink	.45	.40
Walter Faxon, excellent bright rose	.50	.45

PEONIES TO COLOR AND MIXED

Pink to color, not named	.30	.25
Red to color, not named	.30	.25
White to color, not named	.35	.30
Mixed Peonies, grown mixed	.25	.20

SINGLE PEONIES

Krinkled White, well known ruffled white	1.50	1.35
Sea Shell, large bright pink	.80	.75
Send for our complete list of Peonies, Irises, Day Lilies and packaged Peonies.		
SARCOTIE NURSERIES Wild Bros. Nursery Co. Phone KI 8-3512 Sarcotie, Mo.		

PEONIES—Continued

Tree Peonies, herbaceous Peonies,
Atha Gardens, West Liberty 6, O.

PHLOX

PHLOX SUBULATA

(Creeping Phlox)
Admiration, cameo-pink with white eye
Alba, an excellent pure white
Astro, deep orchid-rose
Atropurpurea, rich wine-red
Blue Hills, attractive medium blue
Butterfly, lilac bluish, showy purple eye
Crimson Beauty, brilliant cyclamen-red
Red Wing, finest large flowering red
Sensation, bright pink with red eye
Transplants, \$9.50 per 100, \$90.00 per 1000.
Liners, \$5.00 per 100, \$45.00 per 1000.
250 or more of same variety at 1000 rate.
Prices are prepaid, we pay transportation.
Terms: Cash with order.
TANGLEWOOD FAIRM
P. O. Box 336-N Clinton, S. C.

Phlox subulata, beautiful evergreen border plant, very hardy, in bright red, rose-pink, pure white and blue; large, strong field-grown plants, \$8.00 per 100, \$60.00 per 1000. Fast spreader, fresh delivery.
Tidwell Nurseries, Greenville, Ga.

PIERIS

ANDROMEDA
(Pieris japonica)

One of the most beautiful broad-leaved
Evergreens.

	Per 100	Per 1000
1 to 2 ins.	\$ 6.00	\$ 50.00
2 to 3 ins.	8.00	75.00
4 to 5 ins.	15.00	140.00
6 to 8 ins.	20.00	190.00

300 at 1000 rate. Shipped prepaid to your nursery.

PLANE VIEW NURSERY
1355 W. Main Rd., Rt. 114 Newport, R. I.

POPPIES

ORIENTAL POPPIES
Strong field-grown roots, true to name.
Finest we have ever grown 10 100

BETTY ANN, soft pink;
less spots \$2.50 \$20.00
BIG JIM, outstanding blood-red. 3.00 25.00
BONFIRE, fire-red, New Curtis. 3.00 25.00
CARMEN, dark cardinal-red. 3.00 25.00
CARNIVAL, lower part creamy white,
upper half nasturtium-red. 3.50 30.00
CHEERIO, bluish-pink, red spots. 3.50 30.00
CRIMSON POMPON, double red.
Early 3.00 25.00
G. J. JOE, watermelon-pink. 3.00 25.00
GLOWING EMBERS, crimson-red 3.00 25.00
GLOWING ROSE, glowing
rose-pink 3.50 30.00
HELEN ELIZABETH, lovely soft
pink, heavily crinkled. 2.50 20.00
HENRI CAYEUX IMPROVED,
lavender 3.00 25.00
LAVENDER GLORY, new. 4.50 40.00
MANDARIN, rich Chinese-red. 3.00 25.00
MRS. PERRY, light geranium-
pink 2.50 20.00
PINK LASSIE, soft salmon-pink 2.50 20.00
RED FLAME, fiery scarlet-red. 3.00 25.00
RIDGEWOOD BEAUTY, bright
geranium-pink, ruffled 2.50 20.00
SASS PINK, delicate flesh-pink. 3.00 25.00
Write for complete list.

FLOR-ACRES, BRIDGMAN, MICH.

PRIMULAS

GIANT PACIFIC HYBRID PRIMULAS
(Polyanthas)
For perennials. For pot plants.
Blue, pink, red, yellow-bronze.
2 1/4-in. peat pots, 50 plants per carton,
\$15.00 per 100, \$70.00 per 500.
SCHMIDT GREENHOUSES, HARVARD, ILL.

PRIVET

Thousands of Amur River North Privet.
Per 100 Per 1000

18 to 24 ins. \$3.00 \$25.00
2 to 3 ft. 4.00 30.00
3 to 4 ft. 5.00 40.00
Immediate shipment. Satisfaction guar-
anteed. Robinson Nursery Co., Greenville, Ga.

Let us supply your Amur River Privet
needs. An extremely hardy, desirable shrub.
18 to 24 ins., \$4.00 per 100; 2 to 3 ft., \$5.00
per 100. Tidwell Nurseries, Greenville, Ga.

PYRACANTHAS

BERRIED PYRACANTHAS
Lalandi, Lowboy, coccinea, waterl.
5-gal. cans. First class, \$350.00 per 100.
WELLS NURSERY
P. O. Box 141 Red Bank, N. J.

RHODODENDRONS

Hybrid Rhododendrons, any variety, size.
Priced reasonably.
Kordus Nursery, Cranbury Rd., Route 535,
Jamesburg, N. J. Opposite Phelps Dodge
Corp., between exit 8 and 9 on N. J. Turnpike.

LAST OFFER!
RHODODENDRON CUTTINGS
Unrooted cuttings available in quantity.
All commercial red varieties, including Nova
Zembla, Dr. Dresselhuys, America, pink and
white. Ask for complete listing. Minimum
order 1000. Shipping early October.
HOLLAND NURSERY PRODUCTS
P. O. Box 329 New York 10, N. Y.

RHODODENDRONS
Excellent, bushy, budded,
2, 3 and 4-yr.-old plants.
In quality, quantity and variety.
WELLS NURSERY
P. O. Box 141 Red Bank, N. J.

HYBRID RHODODENDRONS
Excellent quality,
for landscaping and garden centers.
PARMENTIER'S ROSES
Bayport, L. I., N. Y.
Phone Bayport 5-0811.

SEEDS, SEEDLINGS AND TRANSPLANTS
Hybrids and species in 1.00 pkts., in flats
and in peat pots. Free packing. Ask for list.
JOHN VERMEULEN & SON, INC.
P. O. Box 336A Neshaun Station, N. J.

RHODODENDRONS
Hardy, hybrid seedlings, liners.
Write for prices and sizes.
THE LEVICK NURSERY CO.
R. F. D. 3 Bridgeton, N. J.

ROSEBUSHES

NORTHERN-GROWN ROSES
for 1961-62 season.
Our catalog covering over 140 varieties
now available. Polyanthas and other forcing
types for the pot-plant growers plus Teas,
Floribundas and climbers in all of the most
popular varieties. Order A.A.R.S. winners,
John S. Armstrong, Golden Slipper, Chris-
tian Dior, and King's Ransom early!
GERARD K. KLYN, INC., MENTOR, O.
OHIO'S LARGEST ROSE GROWER
In the heart of famous Lake County.

ROSEBUSHES
WE SELL NOTHING BUT ROSEBUSHES.
The very EXCELLENT SERVICE IS FREE.
WE GRADE UP TO STANDARD NOT
DOWN TO PRICE. Send for our new list
today and see for yourself.
NEW LONDON ROSES
P. O. Box 356 Overton, Tex.

STOP!
DO NOT BUY A ROSEBUSH UNTIL YOU
SEE OUR PRICES. We grow over 120 PAT-
ENT and STANDARD varieties, both OLD
and NEW. PRICE and QUALITY MAKE
THIS YOUR BEST ROSE BUY.

MARTIN'S ROSE NURSERY
P. O. Box 155 Phone UL 9-2191 Arp, Tex.
Rosebushes, 100 non-patented and 57 pa-
tented varieties. Bare-root and packaged.
Old and new favorites that will please your
customers. Dusted and sprayed weekly for
the finest quality plants. Send for free list
and place your order early while list is
complete. Tate Nursery, R. 3, Tyler, Tex.

TREE ROSES
36 to 38-in. stems, 2 buds on IXL.
For December, January delivery. \$1.70
each in bundles of 5; one bud, \$1.25.
Also Patio Roses on 18-in. stems.
PETER J. BOOY ROSE NURSERY
R. 1, Box 573 San Jacinto, Calif.

ROSEBUSHES, 20 PER CENT DISCOUNT
140 patented and standard varieties, man-
date sprayed weekly. Bare-root for container
or landscape. Glittering packs to display.
L. C. HOUSE & SONS NURSERIES
Dept. 24 10,000 ROSA RUGOSA
18 to 24 ins. high and 24 to 36 ins. high.
For fall and spring planting. Write
TEDDY TALLAT-KELPSA
609 11th Ave. Paterson, N. J.

FOR FALL 1961 DELIVERY
Ask for wholesale offer.
D & D ROSE GARDENS
42 Monmouth Rd. Eatontown, N. J.
ROSE SPECIALISTS.
If you don't find it listed here
try a Want Ad in the next issue
of the American Nurseryman.

ROSE STOCK

MULTIFLORA ROSE
For living fence, conservation and budding
understock. Hardy northern-grown plants,
nematode-free. Our sandy loam produces the
finest root system. Our high quality is well
known.

Caliper and approximate height	Per 1000
2 to 3 mm., 8 to 15 ins.	\$12.50
3 to 5 mm., 15 to 24 ins.	22.50
3 to 5 mm., 12 to 18 ins.	19.25
4 to 6 mm., 15 to 24 ins.	27.50

Ask for quantity prices. We cut the tops
back to about 10 ins. for shipping, unless
you state otherwise. Prices are F.O.B. Glen
Head, Packing at cost. For less than 1000,
add 30 per cent. Available after October 15.
BROOKVILLE NURSERIES
Box 53, Northern Blvd., Glen Head, L. I., N. Y.

MULTIFLORA ROSE

Top quality plants for living fences and
conservation plantings.

Root-crown caliper	Approximate height	Per 1000
2 to 8 mm.	8 to 15 ins.	\$13.75
3 to 5 mm.	12 to 13 ins.	19.25
3 to 8 mm.	12 to 24 ins.	24.75
5 to 12 mm.	18 to 36 ins.	48.50

UNDERSTOCK. Straight shanked seedlings
grown by our method especially for under-
stock. Nematode free. Expertly graded to
suit the most particular.
4 to 6 mm. \$30.25 per 1000
2 to 4 mm. 19.50 per 1000
The above prices are F.O.B. Griggsville, Ill.
nursery. All tops cut back to 10 ins. at
shipping unless otherwise requested. Our
storage facilities are the best. Order now for
fall or spring delivery. 10 per cent discount
in lots of 10,000 or over. Special quotations
on larger quantities. For less than 1000 add
30 per cent. Packing at cost.

FARM LANDSCAPE CO.
Route 3, Urbana, Ill.

SEEDS

PEACH PITS

Southern collected, high germination, \$2.90
and \$3.55 per bu. 1961 crop. Sample upon
request. Phone Howard 1-5415.
RIVERDALE NURSERY, RIVERDALE, GA.
Juniper seed, virginiana, Platt type Red
Cedar (Neb.), cleaned and floated, \$3.00 per
lb.; scopulorum (Colo.), \$3.00 per lb.
Forestry Seed Service, Cuba, Kan.

Sell Stock Quickly and Easily with
American Nurseryman Classified Ads.

SHRUBS AND TREES

EVERGREEN SEEDLINGS

	100	1000
SCOTCH PINE (French or Spanish strain)		
2-yr. seedlings (2-0), 2 to 4 ins.	\$ 3	\$ 15
3-yr. seedlings (3-0), 10 to 18 ins.	9	45
WHITE PINE		
3-yr. seedlings (3-0), 8 to 14 ins.	8	40
4-yr. transplants, grafting size	15	75
MUGHO PINE		
4-yr. seedlings (4-0), 4 to 8 ins.	10	50
4-yr. transplants (3-1), 3 to 5 ins.	15	75
JAPANESE BLACK PINE		
2-yr. seedlings (2-0), 4 to 8 ins.	9	45
3-yr. seedlings (3-0), 12 to 18 ins.	12	60
WHITE SPRUCE		
3-yr. seedlings (3-0), 8 to 14 ins.	8	40
5-yr. transplants, grafting size	20	100
NORWAY SPRUCE		
3-yr. seedlings (3-0), 10 to 18 ins.	9	45
5-yr. transplants, grafting size	25	125
COLORADO BLUE SPRUCE		
3-yr. seedlings (3-0), 6 to 12 ins.	11	55
5-yr. transplants (3-2), 8 to 14 ins.	35	175
CANADIAN HEMLOCK		
3-yr. seedlings (3-0), 6 to 10 ins.	16	80
CONCOLOR FIR		
3-yr. seedlings (3-0), 6 to 10 ins.	8	40
4-yr. seedlings (4-0), 10 to 16 ins.	11	55
4-yr. transplants (3-1), 4 to 8 ins.	16	80
5-yr. transplants (3-2), 8 to 12 ins.	25	125
FRASER FIR		
2-yr. seedlings (2-0), 2 to 4 ins.	8	40
3-yr. seedlings (3-0), 4 to 8 ins.	12	60
BALSAAM FIR		
3-yr. seedlings (3-0), 3 to 5 ins.	8	40
4-yr. transplants (3-1), 4 to 8 ins.	18	90
BARBERIES, GREEN		
2-yr. seedlings (2-0), 6 to 12 ins.	8	40
2-yr. seedlings (2-0), 12 to 18 ins.	10	50
WHITE FLOWERING DOGWOOD		
Seedlings, 4 to 8 ins.	7	35
Seedlings, 12 to 24 ins.	12	60

MUSSER FORESTS, INC., Indiana, Pa.

Box 16TC
We have in our nursery for fall planting:
Red Oak, 1 1/2 to 5 ins.
English Oak, 1 to 5 1/2 ins.
Pin Oak, 1 to 3 1/2 ins.
Crimson King Maple, 1 to 2 1/2 ins.
Sweet Gum, 1 1/2 to 3 ins.
Carpinus betulus, 6 to 12 ft.
Washington Hawthorne, heavy, 12 to 15 ft.
Little Leaf Linden, 1 to 3 ins.

We also have for early fall or spring
planting:
Cut-leaved Birch and upright Birch.
Belle Valley Nursery, 5614 Martin, Erie, Pa.

DWARF MAHONIA

Jack Mayhan is authority on mountain-
grown Mahonia. This is a new variety selec-
tion, hardy as Oak. Very compact, dwarf.
Ready now, 100,000 plants. All plants U. S.
D. A. inspected. Cash in on my many years'
experience.

2-yr., T, \$20.00 per 100, \$150.00 per 1000.
Cash with order. Full return 5-day privilege.
MAYHAN NURSERY, VERADALE, WASH.

RHODODENDRONS

Hybrids in varieties. True Red Jap. Ma-
ples, also the new Bloodgood variety. Own-
root grown. Liners and finished plants. Our
complete list of many items of choice nurs-
ery stock is now ready. See our beautifully
grown Taxus, Ilex, Azaleas, etc.
GERARD K. KLYN, INC.
Mentor, O.

Wholesale Nurserymen

PRICES REDUCED, MUST SELL IN PATH OF NEW RESERVOIR

Routed cuttings, 1-yr. in field beds.

	Per 100	Per 1000
<i>Buxus sempervirens</i> , 4 to 6 ins.	\$ 8.00	\$ 70.00
<i>Chamaecyparis cyano viridis</i> , 4 ins.	12.00	...
<i>Chamaecyparis lutescens</i> , 4 to 6 ins.	8.00	70.00
<i>Ilex bullata</i> , 4 to 6 ins.	8.00	70.00
<i>Ilex crenata</i> , 4 to 6 ins.	8.00	70.00
<i>Juniper</i> , Andorra, 4 to 8 ins.	8.00	70.00
<i>Juniperus hibernica</i> , 4 to 6 ins.	12.00	...
<i>Juniperus hetzi</i> , 4 to 6 ins.	8.00	70.00
<i>Juniper</i> , Pfitzer, 4 to 6 ins.	12.00	100.00
<i>Juniperus stricta</i> , 4 to 6 ins.	12.00	100.00
<i>Juniperus communis aurea</i> , 4 to 6 ins.	12.00	...
<i>Pachysandra</i> , 4 to 6 ins.	4.00	35.00
<i>Pyracantha lalandi</i> , 4 to 8 ins.	10.00	90.00
<i>Pieris japonica</i> , 4 to 8 ins.	8.00	75.00
<i>Retinispora plumosa aurea</i> , 5 to 8 ins.	8.00	70.00
<i>Retinispora plumosa</i> , 5 to 8 ins.	8.00	70.00
<i>Retinispora squarrosa veitchii</i> , 5 to 8 ins.	8.00	70.00
<i>Taxus brevifolia</i> , 4 to 6 ins.	8.00	70.00
<i>Taxus brownii</i> , 4 to 6 ins.	8.00	70.00
<i>Taxus brevifolia</i> , 4 to 6 ins.	8.00	70.00
<i>Taxus cuspidata</i> , 4 to 6 ins.	8.00	70.00
<i>Taxus cuspidata</i> F&P compacta, 4 to 6 ins.	10.00	90.00
<i>Taxus hatfieldi</i> , 4 to 6 ins.	8.00	70.00
<i>Taxus hicksii</i> , 4 to 6 ins.	8.00	70.00
<i>Taxus intermedia</i> , 4 to 6 ins.	8.00	70.00
<i>Taxus Moon's columnaris</i> , 4 to 6 ins.	8.00	70.00
<i>Taxus repandens</i> , 4 to 6 ins.	10.00	70.00
<i>Thuja globosa</i> , 5 to 8 ins.	8.00	70.00
<i>Thuja nigra</i> , 5 to 8 ins.	8.00	70.00
<i>Thuja Geo. Peabody</i> , 5 to 8 ins.	8.00	70.00
Routed cuttings, 2-yr. in field beds.		
<i>Juniperus hetzi</i> , 8 to 12 ins.	12.00	100.00
<i>Retinispora pisifera aurea</i> , 8 to 12 ins.	12.00	100.00
<i>Retinispora plumosa</i> , 8 to 12 ins.	12.00	100.00
<i>Pieris japonica</i> , 6 to 10 ins.	12.00	100.00
<i>Taxus cuspidata</i> , 6 to 8 ins.	12.00	100.00
<i>Taxus intermedia</i> , 6 to 8 ins.	12.00	100.00
<i>Taxus brownii</i> , 6 to 8 ins.	12.00	100.00
<i>Taxus hicksii</i> , 6 to 8 ins.	12.00	100.00
<i>Taxus brevifolia</i> , 6 to 8 ins.	12.00	100.00
<i>Ilex bullata</i> , 6 to 8 ins.	12.00	100.00
<i>Retinispora plumosa aurea</i> , 8 to 12 ins.	12.00	100.00
<i>Thuja George Peabody</i> , 6 to 10 ins.	12.00	100.00
<i>Taxus cuspidata</i> F&P, 6 to 8 ins.	12.00	100.00
<i>Taxus repandens</i> , 6 to 8 ins.	15.00	120.00
1-yr. seedlings.		
Black Locust (<i>Robinia pseudo-acacia</i>), 12 to 18 ins.	6.00	50.00
<i>Taxus capitata</i> , 3 ins.	2.00	15.00
Chinese Chestnut, 12 to 18 ins.	8.00	70.00
<i>Fagus sylvatica</i> , 6 to 10 ins.	10.00	80.00
2-yr. seedlings.		
<i>Acer palmatum</i> , 6 to 10 ins.	8.00	70.00
<i>Ilex crenata</i> , 3 to 6 ins.	5.00	40.00
<i>Douglas Fir</i> , 4 to 8 ins.	5.00	40.00
Black Hills Spruce, 3 to 4 ins.	5.00	40.00
Chinese Chestnut, 18 to 30 ins.	10.00	90.00
<i>Pinus densata</i> , 8 to 10 ins.	3.00	25.00
<i>Picea pungens glauca</i> , 3 to 5 ins.	3.50	25.00
<i>Picea</i> (White Spruce), 3 to 5 ins.	3.50	25.00
<i>Pinus strobus</i> , 4 to 6 ins.	3.50	25.00
<i>Pinus sylvestris</i> , 4 to 6 ins.	3.50	25.00
<i>Thuja occidentalis</i> , 4 to 6 ins.	3.50	25.00
<i>Thuja orientalis</i> , 4 to 6 ins.	3.50	25.00
<i>Taxus capitata</i> , 4 to 8 ins.	4.00	30.00
<i>Picea excelsa</i> , 3 to 6 ins.	3.50	25.00
<i>Concolor Fir</i> , 3 to 5 ins.	5.00	40.00
<i>Pinus nigra</i> , 6 to 10 ins.	5.00	40.00
<i>Pinon Pine</i> , 4 to 6 ins.	6.00	...
3-yr. seedlings.		
<i>Balsam Fir</i> , 4 to 6 ins.	4.00	30.00
<i>Picea</i> (White Spruce), 4 to 8 ins.	4.00	30.00
<i>Pinus mughus</i> (Tyrolean), 3 to 5 ins.	6.00	50.00
<i>Tsuga diversifolia</i> , 4 to 6 ins.	7.00	60.00
<i>Concolor Fir</i> , 4 to 6 ins.	5.00	40.00
<i>Taxus capitata</i> , 6 to 10 ins.	8.00	75.00
In large quantity, they may be had for \$50.00 per 1000.		
3-yr. seedlings, transplanted.		
<i>Azalea mollis</i> , 6 to 8 ins.	10.00	...
<i>Azalea mucronulata</i> , 6 to 8 ins.	20.00	...
<i>Taxus capitata</i> , 6 to 8 ins.	10.00	90.00
<i>Tsuga canadensis</i> , 4 to 7 ins.	8.00	70.00
<i>Pinus strobus</i> , 4 to 6 ins.	7.00	60.00
<i>Picea engelmannii</i> , 3 to 6 ins.	6.00	50.00
<i>Picea rubens</i> , 3 to 6 ins.	7.00	60.00
<i>Picea pungens glauca</i> , 4 to 6 ins.	8.00	70.00
<i>Concolor Fir</i> , 5 to 8 ins.	7.00	60.00
<i>Thuja occidentalis</i> , 8 to 12 ins.	6.00	50.00
<i>Thuja orientalis</i> , 8 to 12 ins.	6.00	50.00
Black Hills Spruce, 3 to 4 ins.	7.00	60.00
4-yr., transplanted.		
<i>Taxus capitata</i> , 8 to 12 ins.	15.00	125.00
<i>Leucothoe catesbaei</i> , 10 to 14 ins.	35.00	...
<i>Picea engelmannii</i> , 6 to 8 ins.	8.00	70.00
<i>Picea excelsa</i> , 6 to 12 ins.	12.00	100.00
<i>Picea pungens glauca</i> , 6 to 10 ins.	12.00	100.00

(Continued in next column)

(Continued from previous column)

<i>Pinus mughus</i> (Tyrolean), 4 to 6 ins.	15.00	...
<i>Thuja occidentalis</i> , 8 to 12 ins.	12.00	...
<i>Tsuga canadensis</i> , 5 to 8 ins.	10.00	90.00
<i>Tsuga canadensis</i> , 8 to 10 ins.	15.00	140.00
<i>Tsuga canadensis</i> , 10 to 12 ins.	20.00	190.00
5 yr., transplanted		
<i>Douglas Fir</i> , 12 to 18 ins.	10.00	80.00
<i>Concolor Fir</i> , 6 to 10 ins.	15.00	130.00
<i>Tsuga canadensis</i> , 12 to 15 ins.	30.00	250.00
<i>Picea pungens glauca</i> , 18 to 18 ins.	20.00	140.00
<i>Picea</i> (White Spruce), 12 to 18 ins.	10.00	80.00
<i>Picea excelsa</i> , 12 to 18 ins.	10.00	80.00

VAN DINE NURSERY
Berdan Ave. Wayne, N. J.

QUALITY GROWN STOCK

<i>Juniperus chinensis glauca hetzi</i> , 2 1/2 to 5 ft.	
<i>Juniperus chinensis pfitzeriana</i> , 2 to 4 ft.	
<i>Juniperus chin. pfitzeriana</i> , N. C., 2 to 3 ft.	
<i>Juniperus virginiana keteleeri</i> , 4 to 6 ft.	
<i>Juniperus virginiana canaerti</i> , 3 to 5 ft.	
<i>THUJAS</i> , pyramidalis, 1 1/2 to 4 ft.	
globe, 1 1/2 to 2 1/2 ft.	
BROADLEAF EVERGREENS	
<i>Abelia grandiflora</i> , 2 to 4 ft.	
<i>Berberis julianae</i> , 2 to 3 ft.	
<i>Berberis mentenensis</i> , 2 1/2 to 4 ft.	
<i>Cotoneaster aciculata</i> , 1 1/2 to 4 ft.	
<i>Euonymus vegetus</i> , 1 1/2 to 4 ft.	
<i>Euonymus patens</i> , 1 1/2 to 3 ft.	
<i>Ilex crenata convexa</i> , 1 1/2 to 2 1/2 ft.	
<i>Ilex crenata rotundifolia</i> , 1 1/2 to 2 1/2 ft.	
<i>Ilex glabra</i> , 1 1/2 to 2 1/2 ft.	
<i>Magnolia grandiflora</i> , 2 to 4 ft.	
<i>Mahonia aquifolium</i> , 2 to 4 ft.	
<i>Nandina domestica</i> , 1 1/2 to 3 ft.	
<i>Osmanthus americanus</i> , 1 1/2 to 3 ft.	
<i>Pyracantha c. lalandi</i> , 1 1/2 to 3 ft.	
<i>Pyracantha c. pauciflora</i> , 1 1/2 to 2 1/2 ft.	
<i>Viburnum burkwoodii</i> , 1 1/2 to 5 ft.	
<i>Viburnum rhytidophyllum</i> , 1 1/2 to 3 ft.	

DECIDUOUS TREES

<i>Acer platanoides</i> , 1 1/2 to 2-in. cal., 8 to 12 ft.	
<i>Betula papyrifera</i> , 1 1/2 to 1 1/2-in. cal., 8 to 12 ft.	
<i>Betula pendula alba</i> (clumps), 6 to 8 ft.	
<i>Cercis canadensis</i> , 1 to 1 1/2-in. cal., 7 to 10 ft.	
<i>Crataegus phaenopyrum</i> (cordata), 1 1/2 to 2-in. cal., 5 to 10 ft.	
<i>Liriodendron tulipifera</i> , 1 1/2 to 2-in. cal., 7 to 12 ft.	
<i>Magnolia soulangeana</i> , 3 to 6 ft.	
<i>Sorbus aucuparia</i> , 1 1/2 to 2-in. cal., 8 to 12 ft.	
<i>Tilia cordata</i> , 1 to 1 1/2-in. cal., 5 to 8 ft.	

ALL ARE BEAUTIFUL SPECIMENS

<i>Malus Almey</i> , 1 1/2-in. cal., 10 to 12 ins.	
<i>Malus arnoldiana</i> , 1 1/2 to 2-in. cal., 6 to 10 ins.	
<i>Malus atrosanguinea</i> , 2 to 2 1/2-in. cal., 6 to 10 ins.	
<i>Malus sp. albiplena</i> , 1 1/2-in. cal., 7 to 8 ft.	
<i>Malus Dolgo</i> , 1 to 1 1/2-in. cal., 6 to 10 ft.	
<i>Malus Dorothea</i> , 1 to 1 1/2-in. cal., 5 to 10 ft.	
<i>Malus eleyi</i> , 1 1/2 to 1 1/2-in. cal., 8 to 12 ft.	
<i>Malus Hops</i> , 1 1/2 to 2 1/2-in. cal., 7 to 12 ft.	
<i>Malus Katherine</i> , 1 1/2 to 1 1/2-in. cal., 7 to 10 ft.	
<i>Malus Pink Beauty</i> , 1 1/2-in. cal., 8 to 10 ft.	
<i>Malus Purple Wave</i> , 1 1/2-in. cal., 8 to 10 ft.	
<i>Malus sargentii</i> , 1 1/2-in. cal., 6 ft.	
<i>Malus Strathmore</i> , 1-in. cal., 7 to 8 ft.	
<i>Malus Van Eseltine</i> , 1 1/2-in. cal., 10 to 12 ft.	
<i>Malus zumi calocarpa</i> , 1 to 2 1/2-in. cal., 5 to 12 ft.	

AND ORNAMENTAL SHRUBS

<i>Buddleia</i> , pink, purple and white, 6 ft.	
<i>Cotoneaster divaricata</i> , 3 to 6 ft.	
<i>Cydonias, rosa plena, nivalis. Boule de Feu</i> , 4 to 5 ft.	
<i>Deutzias, gracilis. Pride of Rochester and scabra crenata</i> , 5 to 6 ft.	
<i>Elaeagnus angustifolia</i> , 2 to 5 ft.	
<i>Euonymus alatus compactus</i> , 3 to 4 ft.	
<i>Forsythia Spring Glory</i> , 4 to 6 ft.	
<i>Hypericum Hildote</i> , 3 to 5 ft.	
<i>Ilex verticillata</i> , 3 to 5 ft.	
<i>Kerria japonica</i> , 18 to 24 ins.	
<i>Kolkwitzia amabilis</i> , 2 to 3 ft.	
<i>Lagerstroemia indica, rosea, rubra and Wm. Toovey</i> , 2 to 4 ft.	
<i>Lonicera zabeli</i> , 5 to 6 ft.	
<i>Philadelphus Enchantment</i> , 2 to 3 ft.	
<i>Philadelphus lemoinei</i> , 4 to 5 ft.	
<i>Photinia villosa</i> , 5 to 6 ft.	
<i>Prunus glandulosa alba</i> , 4 to 5 ft.	
<i>Spiraea thunbergii</i> , 4 to 6 ft.	
<i>Spiraea vanhouttei</i> , 4 to 5 ft.	
<i>Spiraea prunifolia</i> , 3 to 4 ft.	
<i>Syringas, Buffon, Congo, Ellen Willmott, Pres. Grey and persica</i> , 3 to 4 ft.	
<i>Syringa Anthony Waterer</i> , 18 to 24 ins.	
<i>Viburnums, carlesii, tomentosum, juddii and trilobum</i> , 2 to 6 ft.	
<i>Vitex macrophylla</i> , 4 to 5 ft.	

VINES

<i>Celastrus scandens</i> , 6 to 8 ft.	
--	--

PRICES ON REQUEST. VISIT US.

Phone 2-6621.

ELKHORN NURSERY (A.A.N., K.N.A.)

W. C. H. Wood

Bryan Station Rd., Lexington, Ky.
State highway 956, 3 miles beyond northern Beltline.

One tract of land sold. Boxwoods, Evergreens, shrubs and trees. Plants must be moved this year. Ask for wholesale offer.
Boxwood Nurseries, Mocksville, N. C.

BRANCHED SHADE TREES

Heavy liners and finished trees.

	Per 100	Per 1000
<i>Pin</i> and Red Oak, root pruned		
18 to 24 ins.	\$ 15.00	\$ 120.00
2 to 3 ft.	22.00	180.00
3 to 4 ft.	30.00	250.00
4 to 6 ft.	40.00	350.00
Thornless Honey Locust, branched and root pruned		
3 to 4 ft.	40.00	350.00
4 to 5 ft.	50.00	450.00
5 to 6 ft.	60.00	500.00
6 to 8 ft.	250.00	2000.00
8 to 10 ft.	300.00	...
<i>Phellodendron amurense</i> (Cork Tree), branched and transplants		
3 to 4 ft.	100.00	...
4 to 5 ft.	140.00	...
5 to 6 ft.	200.00	...
<i>Koeleruteria pan.</i> (Golden Rain Tree), branched and transplants		
4 to 5 ft.	150.00	...
5 to 6 ft.	200.00	...
<i>Nyssa sylvatica</i> (Sour Gum), branched and transplants		
3 to 4 ft.	125.00	...

Write for our new fall 1961 price list quoting on our complete line of evergreens, shrubs and shade trees.

EGYPTIAN NURSERY & LANDSCAPE CO.

Two miles North of Farina on Route 37

Farina, Ill.

SHRUBS AND TREES

2000 SILVER Maple, 1 1/4, 1 1/2 and 2 and 2 1/2-in. cal.	
500 SUGAR MAPLE, 1 1/4 and 1 1/2-in. cal.	
NORWAY MAPLE, 2 1/2-in. cal. and up.	
SCHWEDLER MAPLE, 2 1/2-in. cal. and up.	
A.M. SYCAMORE, 1 1/4 to 3-in. cal.	
E. MT. ASH, 5 to 6, 6 to 8 ft. and 1 1/4-in. cal.	
A. WHITE ASH, 1, 1 1/4, 1 1/2 and 2-in. cal.	
GREEN ASH, 1, 1 1/4, 1 1/2 and 2-in. cal.	
FLOWERING CRAB, 3 to 4 ft. to 1 1/4-in. cal.	

Other trees in smaller quantities. Flowering shrubs in variety. See our ad under Evergreens, B&B.

R. 2, Box 267, Decatur, Mich.

Phone GARfield 3-3739

EVERGREENS, WHOLESALE

A wide selection of Evergreen seedlings and transplants, also hardwoods, shade trees, ornamentals, shrubs and flowering trees. Our selected seed with good heredity and scientific culture assures healthy trees with heavy roots for rapid growth.

Musser offers quality trees at a price made possible through large quantity production. No charge for packing and boxing. Ask for complete catalog and wholesale planting lists.

Our ad, which appears on page 20 of this issue, shows a partial list of seedlings and transplants.

MUSSEY FORESTS

Box 16-1C Indiana, Pa.

SHADE TREES

These sizes and kinds available in quantity at our Urbana, Ill. nursery.
Amur Cork Tree, 2-in. through 5-in. dia.
American Sycamore, 8 1/2 to 8 ft. through 6-in. dia.
Green Ash, 6 to 8 ft. through 3-in. dia.
Silver Maple, 2 1/2 through 6-in. dia.
Tulip Tree (*Liriodendron*), 6 to 8 ft. through 5-in. dia.
Thornless Locust, 1 1/2-in. to through 5-in. dia.

We grow principally for our own use. The above trees are surplus and available in quantity.

WANDERL'S Urbana, Ill.

R. 3, Station Rd.

SHADEMASTER LOCUST

(PLANT PAT. NO. 1515)

The finest of all the thornless Honey Locusts. Straight, rapid growth. Transplants easily.

A money-maker for grower or landscape man.

8 to 10 ft., 1 to 1 1/4-in.	\$ 7.00	\$ 5.50
9 to 11 ft., 1 1/4 to 1 1/2-in.	9.50	7.50
10 to 12 ft., 1 1/2 to 1 3/4-in.	11.00	9.00

PRINCETON NURSERIES

Princeton, N. J.

LONDON PLANE TREES

Straight, well-headed, well-priced.

	1-9	10-49	50 up	For B&B add
1½ to 2 ins. ...	\$ 9.00	\$ 8.00	\$ 7.00	\$ 4.00
2 to 2½ ins. ...	14.00	12.00	9.50	5.50
2½ to 3 ins. ...	16.00	14.00	12.00	8.00
3 to 3½ ins. ...	18.00	17.00	16.00	10.00
3½ to 4 ins. ...	20.00	19.00	...	15.00

SHRUBS AND TREES—Continued**QUERCUS PALUSTRIS SEEDLINGS**

(True Pin Oak)
Now booking orders for fall delivery.
Bed-grown seedlings.
6 to 8 ins. \$25.00 per 1000
8 to 12 ins. 40.00 per 1000

AL COOK NURSERY
5519 N. Illinois, Route 159, Belleville, Ill.

COLLECTED STOCK

CANADIAN HEMLOCK
SUGAR MAPLES
BIRCH CLUMPS, FERNS
AND WILDFLOWERS
Send for wholesale list.

LAMPREY RIVER NURSERY
Radford H. Palmer
R. F. D. 1 Durham, N. H.

TRANSPLANTED SHADE TREES
Sugar Maples, 2 to 2½-in. cal., B&B...\$10.00
Norway Maples, 2½ to 3-in. cal., B&B... 10.00
Pin Oak, 1½ to 2-in. cal., B&B... 12.00
We have a limited number of these trees which have been transplanted and well-cared for.

BLODGETT NURSERIES
Route 152 Perkaskie, Bucks Co., Pa.

Finest quality stock: Flowering Cherry, Plum, Crab, Shade, Paassen's Black and Norway Maples, White Birch and others. Rose-bushes, non-patented. Reasonable. Write. Canby Nursery, R. 3, Box 337, Canby, Ore.

Phellodendron Amurense, new, hardy, rapid-growing, spreading shade tree. Deeply furrowed bark. Sheds leaves all at once. 6 to 7 ft., \$3.00; you dig, \$2.50.
Harry J. Baker, Crawfordville, Ind.

Metasequoia, Dawn Redwood.
Please see advertisement on page 76.
Templeton, Phytotektor, Winchester, Tenn.

TAXUS**TAXUS (YEW)**

ONE OF OUR SPECIALTIES
We have a quantity of high-quality Taxus, in small to medium sizes. These must be seen to be appreciated.

Each, 5-29 30-99 100 up
T. andersoni and cuspidata
12 to 15 ins.\$3.50 \$3.00 \$2.85
15 to 18 ins. 4.00 3.50 3.25
18 to 21 ins. 4.85 4.50 4.25
T. cuspidata compacta
15 to 18 ins. 4.25 3.75 3.25
18 to 21 ins. 5.50 5.00 4.75
T. beryllii and brownii
12 to 15 ins. 3.75 3.25 3.00
15 to 18 ins. 4.25 3.75 3.25
18 to 21 ins. 5.50 5.00 4.75
T. hatfieldii
15 to 18 ins. 4.50 4.00 ...
18 to 24 ins. 5.50 5.00 ...
T. hicksii
15 to 18 ins. 3.75 3.50 3.25
T. wardii
12 to 15 ins. 3.75 3.25 3.00
15 to 18 ins. 4.25 3.75 3.25
18 to 21 ins. 5.50 5.00 4.75

R. BRUMOND SMITH NURSERY, INC.
R. R. 2, Box 198 Muncie, Ind.
Phone Atlas 2-5144

**FALL SPECIAL
QUALITY TAXUS, QUALITY!**

Hicksi, sheared
15 to 18 ins.\$3.50
18 to 24 ins. 3.75
24 to 30 ins. 4.00
Cuspidata, densiformis, intermedia (sheared)
15 to 18 ins. 3.75
18 to 24 ins. 4.25
Sebian, intermedia, browni (sheared)
15 to 18 ins. 3.75
18 to 24 ins. 4.25
Have larger sizes available in limited quantity. All stock full sheared quality.
JUNIPER HILL NURSERIES
Highway 6 West Kendallville, Ind.
Phones, 347-3345 and 347-3697

TAXUS HICKSI

6 to 8 ins., from open beds.
Greenhouse propagated.
January 1, 1959, X, \$180.00 per 1000.
January 1, 1958, XX, \$250.00 per 1000.
12 to 18 ins., field liners, 4-yr., XX,
\$400.00 per 1000.

ALSO FOR DECEMBER

Cutting wood, stems 10 to 15 ins., in lots of 5000, 2c each. NO SHIPPING.
Stock sold for cash pickup only.
Nursery open from 9 A. M. to 5 P. M.

DUNLAP'S NURSERY
Oakwood Manor Cromwell, Conn.
Phone Diamond 6-4972, 7 to 8 A. M. or after 7 P. M.

TAXUS

Spreading, 18 to 24 ins.
Hicksi, 15 to 18 ins.
10,000 to choose from.
Reduced prices. Must clear leased land.
BRAINE & FOREMAN
U. S. Route 62 Sharon, Pa.

HEAVY TAXUS LINERS
Grown from cuttings, trimmed back, bushy.
3-yr., TTT

Taxus browni, 10 to 12 ins. Per 100
Taxus cuspidata, 10 to 12 ins. \$45.00
Taxus capitata, 10 to 12 ins. 40.00
Taxus hicksi, 10 to 12 ins. 40.00
Taxus Vermeulen, 10 to 12 ins. 40.00
Taxus andersoni, 10 to 12 ins. 40.00
The above varieties in 4-yr., TTT 55.00
The above varieties in 5-yr., TTT 65.00

STROHL'S NURSERY
5204 St. Joe Rd. Ft. Wayne, Ind.

TAXUS CAPITATA

(Upright Japanese Yew)
2-yr. selected edgls. (seed sown lightly. Plants grown with plenty of room in beds.), \$15.00 per 100, \$125.00 per 1000.
4-yr., T, \$45.00 per 100, \$400.00 per 1000.
6-yr., TT, \$90.00 per 100, \$750.00 per 1000.
WHERE QUALITY EXCELS. No charge for packing.

C. HOOGENDOORN
408 Turner Rd. Newport, R. I.

250,000 TAXUS CUTTINGS
Hicksi, hatfieldi, Halloran, Vermeulen, hilli, cuspidata, densiformis, intermedia, media No. 6, browni and andersoni,
\$20.00 per 1000.
ANNA NURSERY, ANNA, ILL.

300 TAXUS CUSPIDATA CAPITATA
4 to 7 ft., well-sheared, perfect material. Prices on request. Worth looking over.
BRIAR HILLS NURSERIES
Route 100, North State Rd.
Briarcliff Manor, N. Y.

TAXUS CUTTINGS
Andersoni, browni, cuspidata, densiformis, Halloran, Hatfield, Hicksi, Hiti, Sebian intermedia, nigra, wardi, henryi, \$20.00 per 1000.
From true to name stock.

H. B. HARTLINE FARM, MAKANDA, ILL.

Taxus cuspidata, intermedia and hicksi, 6 to 8 ins., branched transplants, good roots, 15c.
Alanwood Nursery, Box 98, Neshaminy P. O., Bucks Co., Pa.

VINES**HALL'S JAPANESE HONEYSUCKLE**

Per 100 Per 1000
Division liners\$ 1.50 \$10.00
2-yr., field-grown, T 5.00 40.00
VINCA MINOR (Hardy Myrtle)
Division liners\$ 1.50 \$10.00
Clumps, 10 to 15 leads 5.00 40.00
Clumps, 15 to 20 leads 6.00 50.00
2½-in. pots 10.00 90.00

LOWELL H. MCGEE NURSERIES
P.O. Box 341 Phone 3351 McMinnville, Tenn.

YUCCAS

YUCCAS
Y. alofolia, Y. elata (radiosa), Y. filamentosa, Y. gloriosa, all container-grown, 1 and 2 gallon and egg can sizes. Our catalog sent promptly on request.
PATTERSON NURSERY, R. 4, Albany, Ga.

Watch Your Results From
American Nurseryman Classified Ads.

WANTED

WE WANT
5000 to 10,000 Yellow Delicious trees on B. M. IX root stock. Prefer 1-yr. whips. Send quotation at once.

VAN WELL NURSERY, INC.
Box 858 Wenatchee, Wash.

For \$4.00

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

At 40c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the October 15 issue to reach us September 22. Forms for the November 1 issue will close October 13.

AMERICAN NURSERYMAN

343 S. Dearborn St. CHICAGO 4, ILL.

WANTED

5000 field-grown clumps of VINCA MINOR, BOWLES VARIETY. Immediate shipment. Quote price delivered to Summit, N. J. and state quality.

WINSTON K. OGDEN, SUMMIT, N. J.
Phone CRestview 3-4286

SUPPLIES**BURLAP**

HOLLAND BURLAP SQUARES
2 grades Super and Plus, sizes 16 to 40 in. HALF MOON CO., Box 27-B, Plainfield, N. J.

Surplus Stock
can be easily and quickly turned into Cash
by listing it in the
American Nurseryman Classified Ads.

CANE STAKES

REDUCE YOUR FREIGHT BILLS ON JAPANESE BAMBOO STAKES
We ship freshly imported stock from: New York, Chicago, Detroit, New Orleans, Portland, Ore., San Francisco and Los Angeles.

DYED GREEN PLANT STAKES
Hand selected, dyed a rich forest green. Uniform lead pencil thickness.

Size	Per bale	Price
1½ ft.	2000	\$ 6.00
2 ft.	2000	8.00
2½ ft.	2000	10.00
3 ft.	2000	13.00
4 ft.	2000	18.00
5 ft.	2000	24.00
6 ft.	2000	33.00

SPLIT BAMBOO STAKES
for light staking
(F.O.B. New York only.)

Size	Per bale	Price
12-in.	2000	\$ 5.00
15-in.	2000	7.00
18-in.	2000	9.00
24-in.	2000	11.00

NBS IMPORTED NATURAL BAMBOO
Stakes selected especially as plant supports. The best quality available.

Size	Diameter	Per bale	Price
3 ft. (¾-in.)	1000	17.50	
4 ft. (¾-in.)	500	19.50	
5 ft. (¾-in.)	250	17.50	
6 ft. (¾-in.)	200	17.50	
7 ft. (¾-in.)	150	17.50	
8 ft. (¾-in.)	100	16.00	

QUANTITY DISCOUNTS ON

TOTAL ORDER
5 bales up, less 5 per cent.
10 bales up, less 10 per cent.
25 bales up, less 15 per cent.

Our generous quantity discounts apply to total orders for all types of stakes.

Sold in bale lots only.
Special prices for direct import of 25 bales or more to all Atlantic, Gulf and Pacific Coast ports.

McHUTCHISON & CO.
695-N Grand Ave. Ridgefield, N. J.

DELIVERED PRICES**EXTRA HEAVY NATURAL BAMBOO STAKES**

DIRECT FROM THE PRODUCER
Now in our 20th yr. supplying millions of stakes to leading growers throughout the United States and Canada.

Specifications represent approximate average diameter at bottom end.

DELIVERED PRICES PER 100 STAKES

Length	% to ¾-in.	% to 1	% to 1 1/4
4 ft.	\$3.90	\$5.00	\$5.50
5 ft.	4.90	5.90	6.80
6 ft.	5.90	7.30	8.50
7 ft. ....	...	9.00	10.30
8 ft. ....	...	10.80	12.00
10 ft. ....	...	16.00	17.50
12 ft. ....	...	18.80	19.90

Above prices include delivery in the continental United States east of the Rockies. Cash orders will be shipped prepaid. Full freight allowed to established accounts. Freight allowance applies to orders for a minimum total of \$20.00. Less quantity, less 15 per cent. F.O.B. here.

A. C. PATTERSON, FRISCO, LA.
Formerly of Centertown, Ky.

BAMBOO CANE STAKES

For greenhouse and nursery purposes. All types and sizes.

Write for prices and quantity discounts.
ALEC HENDERSON, INC.
1313 W. Randolph St. Chicago 7, Ill.

OUTDOOR BAMBOO STAKES

All sizes for immediate delivery. Ask for our Nursery Supply List.
HALF MOON CO., Box 27A, Plainfield, N. J.

CHRISTMAS TREES

PREMIUM CHRISTMAS TREES
15,000 sheared Scotch Pine, 4 to 9 ft.; dark green color. These trees will command top retail prices. Located 90 miles east of Pittsburgh on Route 322 between Clearfield and Philipsburg, Pa. Let us quote on your requirements. We invite early inspection.
AVERY TREE NURSERIES
Box 232 Philipsburg, Pa.
Phone Poplar 5-4362 (Clearfield) after 7 PM.

CHRISTMAS TREES, 5 to 8 ft.
2000 sheared Scotch Pine
1000 Black Hills Spruce.
E. C. FISHER NURSERY
Box 343, Chelsea, Mich.

Christmas trees, wholesale. 15,000 top quality, sheared trees, sizes 4 to 9 ft. Scotch and Austrian Pines, Norway, White and Colorado Spruce. Reasonable prices.
Riverview Nursery, Box 47, Lewisburg, Pa.

Quick — Convenient — Cheap!
Selling through the Classified Ads
of the American Nurseryman.

FERTILIZERS

PETERS SPECIAL

A complete line of soluble and long-life fertilizer formulas specially designed for the commercial grower and manufactured by the Robert B. Peters Co., Inc., the trade's leading commercial soil test laboratory. Drop a card for complete price list and your free brochure, "The Peters System of Soil Fertility Control."

ROBERT B. PETERS CO., INC.
2833 Pennsylvania St. Allentown, Pa.

Check Your Stock Now!
If you have a surplus
sell it through the
American Nurseryman Classified Ads.

FLATS

WHITE CEDAR FLATS

Order by No.	Size	Price per 100	Wt. per 100
No. 1	14x20x2 1/4-in.	\$27.75	320
No. 2	14x16x2 1/4-in.	21.00	260
No. 3	12x16x2 1/4-in.	21.00	260
No. 4	12x16x3 1/4-in.	24.75	275
No. 5	14x16x2 1/4-in.	23.75	275
No. 6	14x16x3 1/4-in.	28.00	290
No. 7	15x22x2 1/4-in.	31.50	380
No. 8	15x22x3 1/4-in.	35.75	425
No. 9	11 1/4x22x2 1/4-in.	25.75	320
No. 10	11 1/4x22x3 1/4-in.	32.50	400
No. 11	14x16x3 1/4-in.	32.75	450
No. 12	5x11x5-in.	16.75	160
No. 13	5x16x5-in.	19.00	215
Plant boxes	5 1/2x11 1/2x2 1/4-in.	8.00	60
Plant boxes	5x8 1/2x2 1/4-in.	5.50	45

Skeleton flats to carry TKPAKS and similar growing containers. (Write us for price list.)
All other sizes quoted on request.
Bottoms and sides are 3/4-in. thick and ends are 1/2-in. thick. Plant boxes are made of thinner lumber. Your name and address printed, up to 3 lines in black ink, on one or both end pieces at the following rates: \$1.00 setup charge plus 1/4¢ per end piece. Shipped K.D. in units of 25. F.O.B. Cook. All shipments by truck, unless otherwise specified.

QUANTITY DISCOUNTS

Order totaling \$100.00 to \$200.00, 5 per cent; \$200.00 to \$400.00, 6 per cent; \$400.00 to \$600.00, 7 per cent; \$600.00 to \$800.00, 8 per cent; \$800.00 to \$1000.00, 9 per cent; \$1000.00 and over, 10 per cent.

TERMS: 2 per cent, check with order; 1 per cent 30 days, net 60.

H. C. HILL & SONS, INC.
Phone North 6-3348 Cook, Minn.

CYPRESS FLATS

No.	Size I.S.M.	Per 100	Wt.
1	14x20x2 1/4 ins.	\$25.80	590
2	14x20x3 ins.	30.00	680
3	12x16x2 1/4 ins.	20.00	440
4	14x16x2 1/4 ins.	22.50	510
5	14x16x3 ins.	22.50	510
6	15x22x2 1/4 ins.	29.50	670
7	15x22x3 ins.	33.80	780
8	11 1/4x22x2 1/4 ins.	23.50	540

Any size to order. Bottoms and sides 3/4-in. thick; ends 1/2-in. All planed one side. 5 per cent discount on orders for 500 or more. Terms: Cash. Up to 3 lines printing. \$1.00 setup charge plus 1/4¢ per end piece. Shipped K.D., units of 25. F.O.B. Williamson, N. C., truck.

H. C. HILL & SONS
P. O. Box 747 Williamson, N. C.
Phone Swift 2-4127

CYPRESS FLATS, K.D.

Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure, \$38.00 per 100.

1x1-in. Cypress stakes, pointed.
50 pcs. to bundle, 4 ft., \$3.50 per bdl.
50 pcs. to bundle, 5 ft., \$4.50 per bdl.
50 pcs. to bundle, 6 ft., \$5.50 per bdl.
Ship same day.
YOHO & HOOKER, YOUNGSTOWN, O.

LABELS

DAHLIA OR TREE LABELS

	Plain	Painted
3 1/2x5 ins., notched, not wired.	\$3.00	\$3.50
3 1/2x5 ins., wired (copper).	3.95	4.90

POT LABELS.

	Plain	Painted
4x5 ins. (cartons 1000 each).	3.95	4.60
5x5 ins. (cartons 1000 each).	4.30	5.10
6x5 ins. (cartons 1000 each).	4.70	5.80

	Plain	Painted
8x5 ins. (cartons 500 each).	\$3.50	\$4.30
10x5 ins. (cartons 500 each).	4.20	5.10

GARDEN STAKES

	Plain	Painted
8x 1/4 ins. (cartons 250 each).	3.00	3.60
10x 1/4 ins. (cartons 250 each).	3.30	3.90
11x1 1/4 ins. (cartons 100 each).	2.00	2.40

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

Catalog on request.
"We ship same day"

YOHO & HOOKER, YOUNGSTOWN 2, O.

FINEST BLANK or PRINTED wood labels.
BENJ. CHASE CO., VI. Sta., DERRY, N. H.

MISCELLANEOUS

Winter Evergreen grave decorations and blankets. White Birch and rustic Cedar supplies, White Birch logs (fireplace), Cedar poles, posts, slabs and flats. Prices upon request. Vermont Evergreen, Inc., R. 7, East Dorset, Vt.

PEAT MOSS

"BRODLEAF" Best Holland PEAT MOSS. Gardner No. 110 and No. 85, Growers No. 120. Growers Jumbo No. 170. Two Bales Equal 3. HALF MOON CO., Box 27A, Plainfield, N. J.

PERLITE

NEW . . . Opens Tight Soil!
HORTICULTURAL PERLITE—volcanic sponge rock
NEVER PACKS
Pana-Loam Perl-Lome
for commercial use for retail sale
THE LASTING SOIL CONDITIONER—aerates, holds water-nutrients, drains soil
TEXAS LIGHTWEIGHT PRODUCTS CO.
117 N. Britain Dept. AN Irving, Texas

PLANT TIES

"QWIK-TIES," NEW, IMPROVED
PLASTIC PLANT TIES
Guaranteed fade-proof.
Small, strong, almost invisible. Economical and easy to use. Packed in bundles of 250 ties for convenient use.

Size	Per carton of 10,000	Av. weight per carton
4-in.	\$10.00	5 lbs.
8-in.	18.00	10 lbs.
12-in.	27.00	14 lbs.

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POLYETHYLENE FILM

LOWEST WHOLESALE PRICES:

.0015 mil., black, 3 ft. x 1000 ft. . . \$11.25
.002 mil., clear, 8 ft. x 1000 ft. . . 8.33
.004 mil., 10 ft. x 100 ft. . . 10.00
.006 mil., 10 ft. x 100 ft. . . 15.00
All other standard sizes, in clear or black, proportionately priced. Freight prepaid on orders of \$50.00 or over.

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NEW LOW PRICES

3 ft. x 100 ft. clear, 4 mil. . . \$ 3.20 roll
4 ft. x 1000 ft., black, 1 1/2 mil. . . 16.00 roll
4 ft. x 100 ft., clear, 4 mil. . . 4.30 roll
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10 ft. x 100 ft., clear or black, 4 mil. . . 10.70 roll

Write for lower prices on quantity orders. Complete stock of all sizes to 40 ft. wide in clear and black.

BROADWAY RUBBER CORP.
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POLYFILM, Clear, Black, Rolls, Sheets.
Save on small and large lots. Write
HALF MOON CO., Box 37A, Plainfield, N. J.

NEW LOW PRICES ON "GER-PAK" BRAND NATURAL AND BLACK POLY FILM

Size	Sq. ft. per roll	Less than 25,000 sq. ft. roll price
.001-IN. (1 MIL.) BLACK FOR MULCHING		
3 ft. x 1000 ft.	3000	\$ 9.95
4 ft. x 1000 ft.	4000	13.25
.0015-IN. (1 1/2 MIL.) BLACK FOR MULCHING		
*3 ft. x 500 ft.	1500	\$ 6.00
3 ft. x 1000 ft.	3000	12.40
4 ft. x 1000 ft.	4000	15.15
.002-IN. (2 MIL.) NATURAL CLEAR ONLY		
*4 ft. 2 ins. x 200 ft.	833	\$ 4.50

8 ft. x 4 ins. x 200 ft.	1667	\$ 8.98
12 ft. x 200 ft.	2400	12.90
.004-IN. (4 MIL.) NATURAL CLEAR ONLY		
*3 ft. x 100 ft.	300	\$ 3.23
*4 ft. x 100 ft.	400	4.31
6 ft. x 100 ft.	600	6.46
8 ft. x 100 ft.	800	8.61
14 ft. x 100 ft.	1400	15.07

NATURAL CLEAR OR BLACK

10 ft. x 100 ft.	1000	\$10.76
12 ft. x 100 ft.	1200	12.92
16 ft. x 100 ft.	1600	17.22
20 ft. x 100 ft.	2000	21.53
24 ft. x 100 ft.	2400	25.83
28 ft. x 100 ft.	2800	30.14
32 ft. x 100 ft.	3200	34.44
40 ft. x 100 ft.	4000	43.05
.006-IN. (6 MIL.) NATURAL CLEAR ONLY		
*3 ft. x 100 ft.	300	\$ 4.84
6 ft. x 100 ft.	600	9.69
12 ft. x 100 ft.	1200	19.38
14 ft. x 100 ft.	1400	22.61

NATURAL CLEAR OR BLACK

10 ft. x 100 ft.	1000	\$16.15
16 ft. x 100 ft.	1600	25.84
20 ft. x 100 ft.	2000	32.30
24 ft. x 100 ft.	2400	38.76
28 ft. x 100 ft.	2800	45.21
32 ft. x 100 ft.	3200	51.68
40 ft. x 100 ft.	4000	64.60

TERMS: 2 per cent CASH DISCOUNT, check with order. Custom rolls of various sizes may be combined to obtain quantity prices. Prices F.O.B. DAYTON, LESS THAN 25,000 SQ. FT.; OVER 25,000 SQ. FT., FULL FREIGHT PREPAID.

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POLYETHYLENE FILM, WHOLESALE
2 mil. (.002) . . . \$ 5.48 per 1000 sq. ft.
4 mil. (.004) . . . 10.95 per 1000 sq. ft.
6 mil. (.006) . . . 16.43 per 1000 sq. ft.
Write for list of sizes and roll prices.
LAUSTER'S GARDEN SUPPLY
67-71 Water St. Lyons, N. Y.

PLASTIC POTS

NEW LOW PRICES ON WILSON

HIGH IMPACT PLASTIC POTS

Round pots	Dimensions, ins.	Ctns.	Carton No. Wt.
R-200	2 1/2 2 1/4 2 1/4	1 1/2	1000 13
R-225	2 3/4 2 3/4 2 3/4	1 1/2	1200 20
R-250	3 3/4 3 3/4 3 3/4	1 1/2	1200 22
R-300	3 3/4 3 3/4 3 3/4	1 1/2	1000 36
R-400	4 4 4	1 1/2	500 32
R-500	5 5 5	1 1/2	300 38
R-600	6 6 6	1 1/2	120 28
R-700	7 7 7	1 1/2	167 20

Round tubs	Dimensions, ins.	Ctns.	Carton No. Wt.
RT-350	3 1/2 3 1/2 3 1/2	2 1/2	25.25 1000 38
RT-400	4 4 4	2 1/2	30.00 500 26
RT-500	5 5 5	2 1/2	60.00 324 34
RT-600	6 6 6	2 1/2	90.00 120 20

Square pots	Dimensions, ins.	Ctns.	Carton No. Wt.
S-225	2 1/2 2 1/4 2 1/4	2	\$ 11.25 1000 18
S-250	2 3/4 2 3/4 2 3/4	2	14.75 1000 22
S-300	3 3/4 3 3/4 3 3/4	2	15.25 1000 24
S-400	4 4 4	2	31.25 500 32
SRP-250	2 1/2 2 1/4 2 1/4	3 1/2	21.00 1000 32

(Rose Pots)
Gallon can
No. 10 Planta Can

Bantam Flats (inside dimensions)
BF-90 (7 1/2x5x2 1/4 deep) \$67.00 96 15
BF-123 (8x6 1/2x2 1/4 deep) 74.00 96 18

Also available in decorator colors. Write for quote on colors. Send fifty cents (50c) for complete set of samples postpaid.
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Phone Baldwin 3-8277

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Letterheads, 8 1/2x11 ins.; envelopes, 6 1/2 size; 250 of each, \$6.50, postpaid in U.S.A.
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RED CEDAR SHINGLE TOW
Large, clean bales of shavings.
Shipped promptly at guaranteed low delivered price. Steady supply to nurseries over 28 years.
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CEDAR TOW
CLEAN, FRESH CUT MATERIAL, FOR
PACKING NURSERY STOCK. PROMPT
SHIPMENTS. YEAR-ROUND SUPPLY. 75c
per bale, 17x20x34 ins. 125 lb. guaranteed
shipping weight.
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Fresh, clean sphagnum moss, write, or
phone City Point 133 for our low prices on
wire-bound bales in truckloads or carlots.
Tony Jaromin, City Point, Wis.

9,500 Active Nurserymen
are in need of stock.
List your offerings in the
American Nurseryman Classified Section.

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CYPRESS PLANT STAKES

50 pieces to bundle.
1x1-in.—3 ft., pointed.....\$3.00 per bundle
1x1-in.—4 ft., pointed..... 3.50 per bundle
1x1-in.—5 ft., pointed..... 4.50 per bundle
1x1-in.—6 ft., pointed..... 5.50 per bundle
1x1-in.—7 ft., pointed..... 7.00 per bundle
These stakes are made of cypress and red-
wood; are good, strong stakes and will give
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necessary."

WE SHIP SAME DAY!
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STAKES, GALVANIZED HARD STEEL
GALVANIZED tree-guying WIRE.
HOSE for guy-wire PADDING.
Prices and samples on request.
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Plant Stakes, see large ad under Cane
Stakes. McHutchison & Co., Ridgefield, N. J.

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CHRISTMAS TREES

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Scotch, Red and White Pine

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Dense Symmetrical Trees

Prices Reasonable
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from
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New



**MAGIC CIRCLE
Rabbit
Repellent**

PROTECTS valuable plantings!
CHASES rabbits FAST!

EFFECTIVE! One spraying can chase
rabbits for several months.
ECONOMICAL! One gallon of con-
centrate makes ten gallons of spray.
SAFE! Will not harm sensitive plants.
SIMPLE! Easy to mix, easy to use.
FRIENDLY! Chases rabbits without
harming them.

It's NEW from the creators of famous Magic Circle Deer Repellent.
BUY NOW! Locally, or write direct to the manufacturer for
complete information.
STATE COLLEGE LABORATORIES,
Dept. A-1, P. O. 492, State College, Pa.

OREGON NOTES

[Continued from page 81]

tersweet. The bright red fruit of the
plant is a strong temptation to chil-
dren. The plant is grown in many
northwest gardens as an ornamental.

Corum is a new, light-colored,
sweet cherry which has been re-
leased, according to Dr. Quentin B.
Zielinski, associate professor of hor-
ticulture, Oregon State University.
The new cherry is said to be vigor-
ous and upright in growth, similar
to the Lambert, and it matures from
five to seven days earlier than Royal
Ann. It is rated as virus-free and is
an excellent pollinizer.

Clifford L. King has purchased
his partner's interest in the Westside
Lawn & Landscaping Co., Eugene.
He will continue to operate the bu-
siness along the same lines as before
at 2550 Willamette street. The for-
mer partner, Vern Cornelius, has
opened a new business known as
Vern's Landscaping.

The Oregon Society of Landscape
Architects met at Ashland August 5.
Arthur Erfeldt, Portland landscape
architect, who is a member of the
3-man board of landscape architect
examiners, reported on the new law
for registration of landscape archi-
tects, which went into effect Aug-
ust 9. The group adopted a change
in the bylaws, creating two new
classes of membership in the
O. S. L. A., affiliate and associate.
On the social side of the program
was attendance at the Shakespearean
theater to watch a presentation of
the play "A Midsummer Night's
Dream."

Now associated with Oregon Bulb
Farms, Gresham, is John Bryan,
horticulturist, who received his train-
ing in the Royal Botanical Gardens,
Edinburgh, Scotland, and the Royal
Horticultural Gardens, Wisley, Eng-
land.

According to Harold Foster, su-
perintendent, Oregon state depart-
ment of agriculture bureau of nurs-
ery service, an unnamed Oregon bulb
grower suffered a \$100,000 loss due
to the use of a pre-emergence weed-
icide, which killed the bulbs.

Richard S. Shaffer, landscape
architect for the Capital mall, state
department of Oregon, designed the
landscape plan for the new Oregon
State Labor and Industries building.
The job cost is estimated at \$10,000.

Don McMullen has purchased
Boyd's Garden & Pet Store, 415
High street, southeast, Salem, from
Robert A. Boyd. The name is being
changed to Berdon's Garden & Pet
Shop. Mr. Boyd will rejoice his



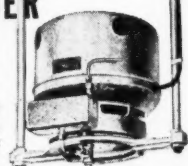
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SKINNER
irrigation

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FOR
GREENHOUSES

Efficient, low cost
humidifier with 4-
way distribution of
humidity vapor.
Simple to install
— all brackets, fit-
tings and hangers
included; simply
hang, connect to
water and plug in.



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Chase, Ala.

father in business at Boyd's Pet Shop at Portland.

L. W. Gilmore; C. L. Nelson, Jr., and Dolores Haslem have incorporated The Garden Mart, Inc., 850 Springhill road, Albany. C. H. P.

CHINESE CHESTNUT ROT

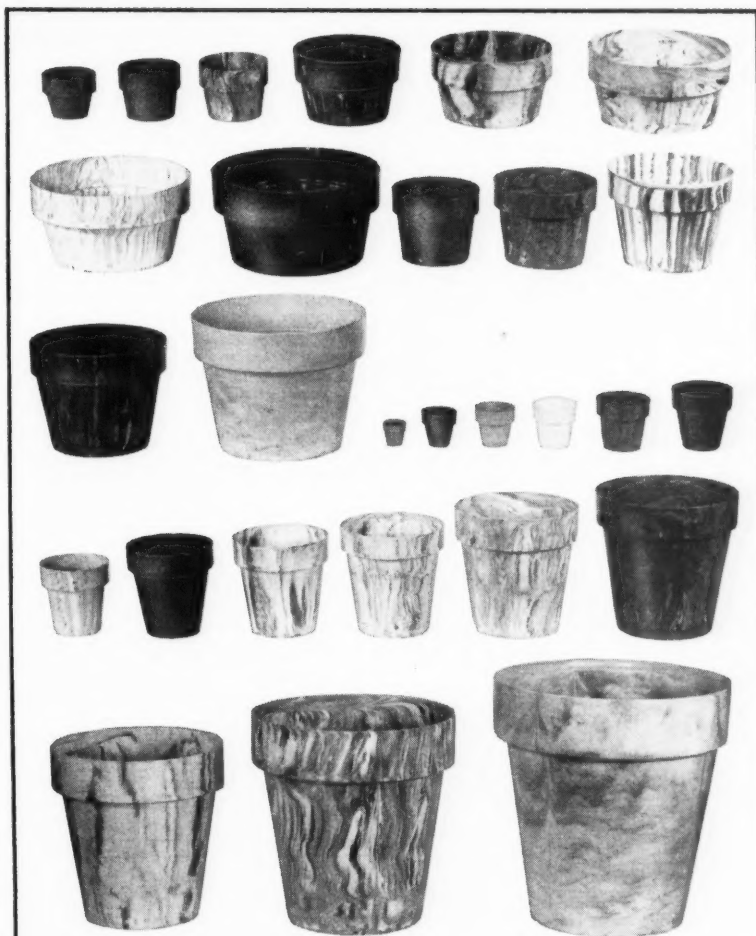
Blossom-end rot, a serious decay of nuts of Chinese Chestnut trees, was found to be due to *Glomerella cingulata*, a fungus that also causes magnolia leaf spot and apple bitter rot, in a study described in the Plant Disease Reporter, volume 42, No. 1, by Marvin E. Fowler, chief of the division of forest disease research, northeastern forest experiment station, Upper Darby, Pa., and Frederick H. Berry, agricultural research service, Beltsville, Md.

The first symptoms of the disease observed on affected chestnuts were small brown spots, usually the size of a dime, around the styler opening on the green burrs. Later in the season, when the shells normally turn brown, the blossom end of decayed nuts turned black and frequently appeared to be covered with a light gray mold.

Study Made in South

The study was conducted from 1939 to 1945 in an orchard of Chinese chestnut (*Castanea mollissima*) at the United States plant introduction garden near Savannah, Ga., where a high incidence of the disease had been noted. It was found that trees exhibiting either high susceptibility or high resistance to the disease were scattered throughout the orchard, indicating that resistance or susceptibility to the decay is an inherent characteristic of certain trees and not a result of environmental conditions.

After the causal fungus had been identified as *Glomerella cingulata*, fungicide tests were begun to find a control for the disease. Elgetol was tested as a ground spray, and Phygon-XL, a 6-6-100 Bordeaux mixture and an 8-8-100 Bordeaux mixture were applied according to several spray schedules, but none of these measures produced adequate control. Later in 1945, however, when it became necessary to thin the stand of trees in the overcrowded orchard, those trees that were known to be highly susceptible to the disease were removed, the stand being reduced by about one third. Since the Chinese chestnut trees remaining in the orchard now appear to be relatively free of blossom-end rot, removal of affected trees seems to offer the best control for the disease.



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to meet your needs!

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Copper Naphthenate Concentrate

for GREENHOUSES and NURSERIES

An Economical MILDEW and DRY ROT
 Preventive for WOOD, BURLAP, ROPE

5-gal. cans
 30-gal. drums
 55-gal. drums

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400 W. Roosevelt Ave. • Bensenville, Ill.

HAVE YOU TRIED PERENNIALS?, by C. H. Potter. Propagation, soil, field care, marketing and other important data. 160 p., illus. (1959). **\$3.00.**
 American Nurseryman 343 S. Dearborn St. Chicago 4, Ill.

WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements

Display: \$4.50 per inch, each insertion.

Lines: 40¢ line; minimum order \$4.00.

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For Delaware nursery specializing in high-quality landscape work, mostly carriage trade. An unusual opportunity in a young growing business in a high income community. Applicant must take responsibility for execution of all landscape work (including hiring and firing connected with running 4 crews and maintenance of 4 trucks and other related equipment); also prepare bids for some project work. Designing by others. Applicant must be interested in permanent association and must have horticultural background in commercial landscape field including: Good knowledge of ornamental plants, ability to move large trees and experience with execution of bid projects. Attractive salary, paid vacation, A.A.N. insurance and home in rural setting. Apply Box 2708, Wilmington 5, Del.

HELP WANTED

One of the larger wholesale nurseries in the Midwest needs an energetic, experienced foreman, well qualified to handle general field operations. Must have ability to handle crew of five to twelve men for maximum production. Must be familiar with operation of machinery. Responsible to general field superintendent. Attractive salary, profit sharing, retirement, hospitalization, life insurance and other benefits. Please write giving full information on qualifications including education, experience, employment references and general background information.

J. V. BAILEY NURSERIES
1325 Bailey Rd. St. Paul 19, Minn.

HELP WANTED

LANDSCAPE ARCHITECT

For landscape design, site development, supervision, survey, specifications, estimating. Wide range of work from small gardens to half-million dollar construction. Private, industrial, churches, schools. Private firm in Indiana. Salary open. Write Box 871, care of American Nurseryman.

HELP WANTED

LANDSCAPE SALESMAN

An excellent opportunity for an ambitious, live-wire man who can show a good past record. Good territory open in suburban Philadelphia. Design ability essential.

SOUTHAMPTON NURSERIES
1255-2nd Street Pike, Southampton, Pa.

HELP WANTED

Nursery foreman for large public organization, vicinity of New York city. Nursery and tree-moving experience necessary. Good worker and organizer. Year round. Write giving age, nationality, complete experience, references and salary expected.

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HELP WANTED

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Large, prominent Philadelphia concern has opening, offering outstanding opportunities for man with proven ability. Highly profitable, permanent position. Earnings of \$10,000 and up, plus profit-sharing plan. State full qualifications. Mail to Box 868, care of American Nurseryman.

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Good opportunity for experienced man to operate small, well-established greenhouse and nursery, located in north central Ohio. Position open due to death of previous owner and operator. Year-round salary of approximately \$250 per month plus small apartment for couple on premises. Must be competent to maintain equipment and premises. Write fully to Box 878, care of American Nurseryman.

HELP WANTED

DESIGNER-SALESMAN NEEDED

A permanent position is available for an aggressive designer-salesman. Salary and commission to be determined by experience and background. Send resume of qualifications to:

A. F. FERVER, JR.
5601 Concord Ave.
Wilmington 3, Del.

HELP WANTED

A large, long-established landscape company has opportunity for an aggressive, proved landscape designer-salesman to share in profits and ownership.

If you are looking for high earnings and are a capable producer, send complete resume immediately to Box 876, care of American Nurseryman.

HELP WANTED

Landscape salesman for newly established retail nursery business and garden center, located near Drexelton, Pa. Must have excellent selling ability. Fully experienced in landscape design and estimating. Would consider right man on partnership basis. Write Box 873, care of American Nurseryman.

HELP WANTED

EXPERIENCED HORTICULTURAL SUPERVISOR

For crew of 6 to 15 gardeners in public display garden. Thorough knowledge of plant-growing techniques required. Some landscape design experience desirable. Located near metropolitan New York.

Address Box 874, care of American Nurseryman.

HELP WANTED

Experienced as landscape and nursery foreman; age 30 to 50 years. State qualifications and references. Comfortable home available for couple or small family. Write P. O. Box 6216, Charlotte 7, N. C.

SITUATION WANTED

European-trained horticulturist, horticultural school graduate, desires permanent position with progressive firm. Give full details in first letter. Address Box 877, care of American Nurseryman.

FOR SALE

We have approximately 15,000 shrubs and trees, all good landscape material. Also tractor equipment, power sprayer and about everything needed to take over a going business. Located 2 1/2 mi. west of Tennessee's fastest-growing city. Will inventory stock and equipment with lease to suit party concerned. We are the only landscape nursery in Hamlin county doing complete landscaping. Leaving because of health is our only reason for selling. Write or call:

SMITH NURSERIES
Morristown, Tenn. Phone: 586-2390

HELP WANTED

PROPAGATOR

Propagator experienced in production of coniferous and broad-leaved evergreens by grafts, greenhouse cuttings, outdoor cuttings, mist propagation and budding and grafting of ornamental trees. Large midsouthern wholesale grower. Expect 2,000,000 or more liners per year. House, insurance and good salary to right man. Only permanent employee wanted. Contact Box 866, care of American Nurseryman.

FOR SALE

McCormick No. 21 potato digger, 1959 model, two row with apron extension, tires, PTO drive and agitator adjuster. Equipped for tree lifting with automobile transmission built into drive train to adjust apron speed to ground speed. Price \$800.

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Thriving garden center, selling complete line of nursery stock. Located on 4-lane federal highway. Modern facilities, with ample parking. Central Kentucky. Write Box 875, care of American Nurseryman.

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Used complete greenhouses. Used greenhouse materials, glass, pipe, valves, etc. Greenhouses bought for wrecking.

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Nursery, established for over 20 yrs. Good location — upper Westchester county. 4 greenhouses. Sale includes landscape nursery stock and other equipment. Selling because of retirement. SHRUB OAK NURSERY
Shrub Oak, N. Y.
Phone: LAKeland 8-5475

FOR SALE

COME TO OREGON

11 suburban acres, spring-fed pond, registered deep well, 2-bedroom house, machine shed, two 30x150-ft. steel-framed greenhouses, old heated. Cash, \$16,000. Terms, \$15,500. Contact: Owner, 6223 Sunnyview, N. E. Salem, Ore. (Phone: EM 4-8742)

FOR SALE

Well established landscape nursery and garden center on two acres. Building two years old. Most modern in Denver area. Well located on busy highway. 1961 gross to date, \$75,000. Box 879, care of American Nurseryman.

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Lines: 40¢ line; minimum order \$4.00.

FOR SALE

Two Holland seedling transplanters, 1955 models, each \$300, and a Holland seedling transplanter, older model, \$200. All equipped with Fairbanks-Morse one-cylinder engine, rubber tires and crank-adjusted front end. Transplanter units not sold with these machines. Price for all three \$750.

KIMBERLY-CLARK CORP.
Woodlands Division
Norway, Mich.

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Excellent building and display area. \$5000 stock of evergreens and shrubs now on 5-acre plot. U. S. Route 1, Delaware Co., Pa.

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THE FRIENDLY EVERGREENS, by L. L. Kumbien, 237 p. 500 illus., 82 in. color, \$10.00
American Nurseryman Chicago 4, Ill.

Answer Questions On Problems at Recent Convention In the Southwest

Reported by Ernest Jensen

Questions on many aspects of the nursery business were answered in a panel discussion featured at the recent joint convention of the Plains Nurserymen's Association and the New Mexico Association of Nurserymen. Presented on the final day of the Albuquerque convention, a full report of which appeared in the August 1 issue, the panel was moderated by Ralph Callaway, Callaway Nursery, Carlsbad, N. M.

Panel members included Tom Scarbrough, Tom's Tree Place, Lubbock, Tex.; John J. Durkin, New Mexico State University, University Park; Bernie Grass, California Chemical Corp., Richmond, Calif.; Robert Mosty, Mosty Bros., Center Point, Tex., and Cameron Verhalen, Verhalen Nursery Co., Scottsville, Tex. Some of the questions and answers follow:

Q: How can one kill all red spiders?

A: (Durkin) Assuming good coverage and proper concentration of solution, Kelthane, followed in three to five days with a second application, or one spray of Tedion will control mites and eggs. A Systox spray has a long residual effect.

Q: What are some ground covers other than grass that are adapted for the Albuquerque area?

A: (Verhalen) English ivy and Confederate jasmine. (Mosty) Purple-leaved honeysuckle. (Scarbrough) Establish English ivy by planting and staking up for six months; then pin plants to ground over a peat moss mulch. The prostrate junipers also make good ground covers.

Q: Will the pecan quarantine in New Mexico soon be lifted?

A: (Gerald Nielson, state department of agriculture) Not in the immediate future. The pecan case borer has been found in the Carlsbad area, but not in the major pecan-producing area of the state.

Q: What can the nurserymen do about chain stores' selling patented roses for 88 cents?

A: (Verhalen) We sell nursery stock to the chains at the same price

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Large Bales
7 cu. ft.

Plastic
Bales
6, 4, 1 1/2
3/4 cu. ft.

Poly-laminated inside & outside

BAGS: BULK PACKED

Ready To Use



King Size
Bags
free-flowing
• More coverage
• More value
• 6 & 3 cu. ft.

poly-laminated outside with
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3 pack

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Also European Peat Moss
10 1/2, 7 1/2, 6, 4 1/2 cu. ft. compressed bales
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Patent applied for.

Here is a perfect combination of extreme compactness and rugged construction. Over-all width, including tires, is 31 inches, allowing the Nurs-ivator to fit into spaces where other tractors cannot work. Permits highly specialized, economical cultivating needed in nursery operations.

Cultivating mechanism is adjustable from 31 inches for between rows and up to 60 inches for regular nursery field work.

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55	5	4	5	200	20
66	6	5	6	200	28
76	7	6	6	100	18
79	7	5-1/2	9	100	25
86	8	7	6	100	20
89	8	6-1/4	9	100	26
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HORTICULTURAL PRODUCTS COMPANY

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WYANDOTTE, MICH.

the retail nurseryman pays. Many chains sell at less than the wholesale prices they paid.

Nursery Promotions

Q: What are some successful sales promotions used by nurserymen?

A: (Scarborough) We have used the two-for-one sale.

A: (Grass) Nurserymen have let the mass market get away from them. Webb's, a drug firm in Florida, sold 227 tons of fertilizer in three days. This firm got into the business because nurserymen think they can sell only on the week-end. Webb's runs a leader ad for Tuesday, but does not sell at the leader prices the next day.

A: (Callaway) Nurserymen have an advantage in their knowledge of plant growing and landscape planting. Provide the know-how appeal to the homeowner by advertising that you can landscape a home for a stipulated price. This package offer of plants is for those with homes on the small (60x90-foot) lots.

A: (Verhalen) Determine who is your real competitor; the customer has a boat, two cars and wall-to-wall carpeting.

A: (Scarborough) Mr. Verhalen hit the nail on the head. Sell the homeowner a landscape job so the family will stay in its own yard, instead of being in a boat or car.

Q: What is the best treatment for dieback of Wisconsin willow?

A: (Callaway) Increase fertilization and water supply. Check and treat for borers.

Q: Should there be a federal law to enforce wholesalers to sell to all customers at the same price?

A: (Callaway) No! There is too much federal interference now.

Lawn Insecticides

Q: Should a lawn be watered just before applying dieldrin for cutworms?

A: (Durkin) Mow, water and apply insecticide. For root-feeding insects, mow, apply, then water.

Q: Why do dealers change lawn insecticide recommendations every two years?

A: (Grass) To avoid a build-up of resistant species.

Q: What should we expect from state regulatory services?

A: (Durkin) Support them; they are working for your best interests.

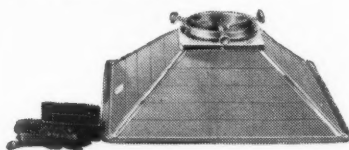
Q: How would you handle a request for information about plants purchased at a supermarket?

A: (Scarborough) Be pleasant and provide the information requested. (Callaway) When an individual calls, ask him to come to your nursery.

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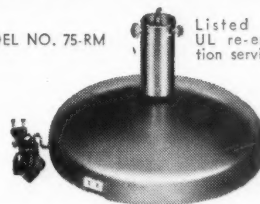


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CAMEO

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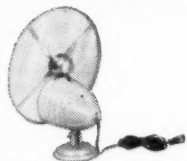


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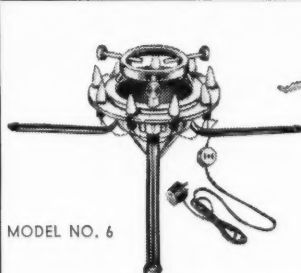
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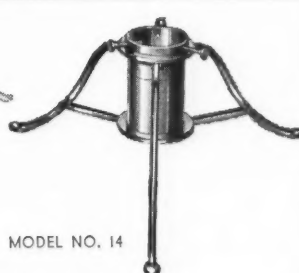
MODEL NO. 90



MODEL NO. 6



MODEL NO. 30



MODEL NO. 14

HANDY THINGS MFG. CO

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ery so you can better advise him; we get more sales this way. (Grass) The Phoenix (Ariz.) Nurserymen's Association members have the problem of discount houses. The nurserymen examined their operations and came up with an annual six weeks' training program for employees, so they could provide better service for their customers when they came to the nursery.

Q: In view of current mass market problems, would you encourage your son to take training in agriculture?

A: (Mosty) I think there is great opportunity to accomplish more for our sons. (Verhalen) The son should be encouraged to take horticulture and business training. (Grass) If the boy is inclined to be a nurseryman, train him in horticulture, with a minor in business. (Scarborough) I should want him to take horticultural training and gain business know-how.

RELOCATION of the Louis Giardi Nursery & Garden Center to a corner at the intersection of the Shiloh road and Route 50, about one mile east of O'Fallon, Ill., was necessitated by the construction of an expressway through the former site.



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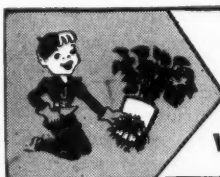
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BOOK REVIEWS

WOODY PLANTS OF OHIO

As a contribution toward a major project embracing the vascular flora of Ohio, "The Woody Plants of Ohio" is a useful book containing information on the trees, shrubs and woody climbers—native, naturalized and escaped—which occur in the state of Ohio, to show by maps the distribution of these species and to give field workers a ready means of identifying such woody plants at any season of the year. Initiated by the Ohio academy of science and made possible by a 3-year grant by the National Science Foundation, the volume is the work of E. Lucy Braun, professor emeritus of plant ecology, University of Cincinnati, and author of "Deciduous Forests of Eastern North America."

The distinguished author has produced a valuable work in this volume of 362 pages, 7½x10½ inches, containing 300 distribution maps and line drawings of about 300 species, many illustrated in both summer and winter condition. Just published by the Ohio State University Press, at \$7.50, the work will be valuable to residents of neighboring states as well as those of Ohio who are interested in the woody plants of the region.

MODERN FRUIT SCIENCE

Prepared primarily for college courses in fruit and nut growing, "Modern Fruit Science," covering orchard and small fruit culture, is a 900-page reference book for anyone who wants the up-to-date answers on fruit growing. The book, by Norman F. Childers, head of the department and research specialist in horticulture at Rutgers University, is the second edition of a work issued 12 years ago and contains about one-third more material. The book is profusely illustrated with pictures and charts which add much interest to the edition.

The first third of the volume is devoted to pome fruits, primarily to all phases of apple production, including varieties, pruning, soil management, pollination and thinning, grafting and budding, freezing injury, harvesting and packing, storing and marketing. Then a concluding chapter in this section covers pear and quince culture. Stone fruits are discussed in three chapters, and nuts and minor fruit tree crops in

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another chapter. Small fruits are covered in three concluding chapters.

An important portion of the book is that devoted to the control of insects and diseases, occupying 130 pages, most of it devoted to spray equipment, materials and application technique. A considerable appendix adds to the book's reference value, and an index occupies eight pages. Priced at \$7.50, the book is published by Horticultural Publications, Rutgers University.

1961 YEARBOOK ON SEEDS

"Seeds, the 1961 Yearbook of Agriculture," published in June by the United States Department of Agriculture, is a 591-page book of seven sections and 75 chapters, with 48 pages of photographs and many drawings, in which 128 experts explain in layman's language the importance, life processes, production, processing, certification, testing and marketing of seeds.

The yearbook gives much practical information for farmers, gardeners, seedsmen, students and others on the seeds of hybrid corn, sorghum, rice, wheat, grasses, sugarbeets, other field crops, vegetables, flowers and trees.

The Yearbook of Agriculture is a Congressional document prepared in the Department of Agriculture and published under direct Congressional authorization. It is distributed mainly by members of Congress and is also sold by the Superintendent of Documents, Government Printing Office, Washington 25, D. C., at \$2 a copy.

TWO DOLPHIN BOOKS

Gardening may be said to have come of age when the libraries of paperback pocketbooks include titles in this category. Two readable ones just issued among the Dolphin books by Doubleday & Co. include "A Joy of Gardening," of 200 pages, reprinting some of the essays on garden topics by the English novelist, V. Sackville-West. These well-written bits of gardening information and advice run to about a page apiece and are arranged by the season of the year, but are extremely readable at any time.

The other, "Herbs and the Earth," reprints a volume of 117 pages of observations and comments on herbs and herb gardens by Henry Beston, originally published in 1935, with woodcuts of the principal herbs by John Howard Bensen. Each of these Dolphin books sells for 95 cents.



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10

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CHAS. CHESTNUT

[Continued from page 14]

about it. "You better take that paper down to the courthouse and get it recorded, otherwise it aint matter of record," I said. "I heard someplace that was the thing to do." Emil went down that afternoon and did what I told him.

Emil started the plan. Some of the members have seen Emils plans. They are not too fancy. He makes them on wrapping paper and puts all the shrubbery in colored crayons. A good plan takes him about 15 minutes on the average the way he does it.

"Now I'll see Herman Hiss and get his O. K. on it and then I'll go and see Oscar Swenson so I'll know where I am at. Hiss is only on a percentage, Oscar says, he aint got a nickel in it," Emil said, just to clarify his position in his own mind. "I'll get Oscar to put his John Henry on it too, you can be sure of that."

I dont know just what the conversation was with Herman Hiss because I didnt go with Emil. He put me to digging an order and I didnt see Emil until the next day.

"How did you make out?", I asked the next morning. "Everything is all set, Hiss give me his O. K. and Oscar said if it was satisfactory to Herman I could go ahead," Emil said.

I didnt hear anything more about it for a couple of weeks when one morning Emil says to me, "Today we will start in on the cemetery job, we will begin with the hackberry."

We dug for a couple of days and groved out a few. They was hard to dig as they was too close together and didnt have too many roots anyway. Emil hired Helms Heritage to dig the holes. He wasnt too much help as he had a bad leg since his team had a runaway several years ago. After a few days we got the job done, such as it was.

"Where abouts are you going to get the lots Emil?", I said. "Will they all be together or sort of mixed around the cemetery?"

"I'm going to see if Herman wont let me have the lots right in front. I just as soon have them in one piece. Herman says he will sell them for me," Emil said.

"It aint likely he will be selling yours when he has got a whole field of 20 acres to sell. I'll bet you dont live so long you will ever collect a dime on that deal," I said. "Next thing you got to get is a deed to the lots."

The summer came along, and on up into the fall there hadn't never been a lot sold so far as I could see. Emil went up to see Herman Hiss



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several times and always got the run around. "Aint been able to get a surveyor yet," Herman told him. "Just as soon as we get the plot you'll get your deed," Herman said.

I didnt say nothing to Emil as I know he was awful touchy on the subject. He never mentioned it to me either. The trees and shrubs all grew up among the weeds and there wasnt no sign of any cemetery. Finally Emil went to see Oscar Swenson.

"I cant get nothing out of Herman Hiss on the deeds to the cemetery lots," Emil told him. "I'm getting fed up on the whole deal and I want my money."

"Herman looks like he flattened out on me," Oscar said. "He's selling used cars someplace and it looks like he give up the idea of starting a cemetery."

"Where do I get off with my planting for heavens sakes?" Emil said. "Herman told me he could get me \$250 a lot for my 10 lots within a year and now its almost two years."

"Dont worry," Oscar said. "You got the agreement I made to give you the 10 lots. What more do you want? If anything turns up I'll let you know."

Emil come home pretty dejected. "Looks like I got gypped out of them hackberry and stuff we put in the

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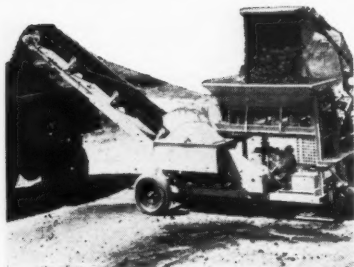
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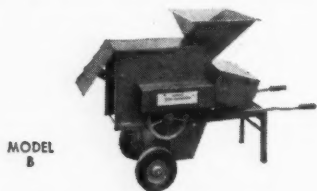


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cemetery. How can I get old Oscar to pay me off?", he said.

"You live and learn," I said. "It wouldn't do you any good even if you had a deed to a little chunk of land in a cow pasture."

The matter was dropped and more or less forgotten for it must have been two years, when one night I was at the civic club meeting and I overheard two members of the school board discussing the new consolidated school. One member was saying, "We got an option on that 20 acres of Oscar Swenson's on the Lake Park road. He wants \$40,000 for the 20 acres."

That was the first I had heard of it although there had been a lot of talk about different locations for the new school. Next morning I told Emil about what I heard. Right away Emil could see where he had Oscar over a barrel. "He can't sell that land with a hunk right out of the front that I got an agreement on. We'll just lay low and let him come to us, then we will put it on him good," Emil said.

Sure enough in a day or so up come Oscar with a check for \$1,000 and laid it on Emil's desk. He wanted his agreement in exchange. Never said a word about the school.

Emil sat there thinking with the check in his hand. "I decided not to sell, Oscar," Emil said. "I think I'll put in a display yard there to sell nursery stock. I think it would be a good location to catch a lot of traffic."

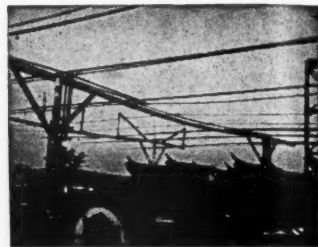
That was a new twist for Oscar, he hadn't thought about. He didn't know just what move to make next. "Would you consider a nice profit on the lots if I make the check for \$1,250? That pays you interest on the deal, Emil," Oscar said.

"The only way I will sell is for \$2,500 like Herman Hiss promised me. If you want to do business, I'll settle for that. Otherwise you can keep the agreement and I will keep the land," Emil said.

A few days went by and the school board exercised their option and started to check over the deal. Oscar came running out with his check for \$2,500. Emil gave him back the agreement. "You are a danged robber, Emil," Oscar said, as he drove away.

I heard Emil telling this story to some of the members one day at the convention. "That's the most money I ever got for second grade hackberry," Emil said. "I had quite a wait, but it takes some smart figuring to get ahead in the nursery business."

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Tour Nurseries, View Research At Annual Day In Rhode Island

By Harrison L. Flint

The University of Rhode Island's nurserymen's day, held August 9 at Kingston and outlying areas, formed the summer meeting of the Rhode Island Nurserymen's Association and was attended by more than 75 persons. Registration was conducted at the University of Rhode Island's new greenhouse headhouse. After coffee, open house was held at several of the university's experimental areas.

At Woodward Hall, the U. R. I. agricultural science laboratory, and at Peckham experimental farm, research on the nature and control of Dutch elm disease was seen. Dr. Ralph Kurtzman, experiment station plant pathologist, is currently investigating the effect of certain chemical products of the disease-causing organism on water movement in elm stems.

Members of the group visited the turf research plots, where a wide range of experiments was shown by Miss Jane Burke, graduate assistant in turf grass management. Of special interest to landscape nurserymen was research on lawn turf, including evaluation of commercial bluegrass, fescue and rye grass strains for home lawn use under different levels of soil fertility. Other experiments on fertilization and seeding mixtures for golf course turf were seen.

At the ornamentals research area of the horticulture department, members of the group saw a continuation of experiments on fertilization of container-grown stock and examples of different species produced in this way. Dr. Harrison Flint also showed results of experiments in which summer-rooted cuttings of more than 35 species and cultivars had been held over winter in refrigerated storage at 32, 36 and 40 degrees Fahrenheit. Many species, such as Forsythia intermedia, Buxus sempervirens, Cornus elegantissima, Pachistima canbyi, Thuja orientalis aurea nana and Thuja occidentalis nigra, survived and subsequently made good growth, regardless of the temperature at which they were stored.

Some species, such as Stephanandra incisa, Ilex glabra, Viburnum

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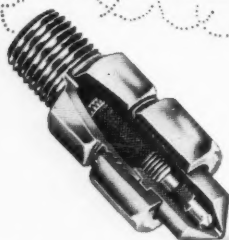
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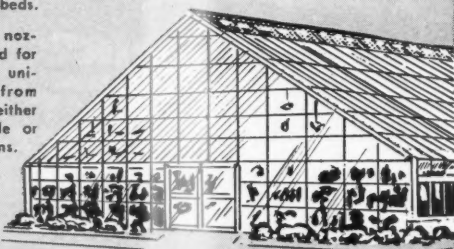
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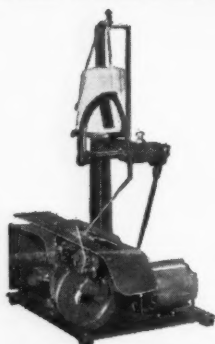
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rhytidophyllum, Prunus serrulata Kwanzan and two azaleas, survived in low numbers in all treatments. Many additional species responded differently to storage at the three temperatures. Generally, storage at 32 degrees was more successful than storage at higher temperatures.

Talk on Extension Service

After the open-house period, the group assembled for a short formal meeting. Guest speaker was Prof. Jay Koths, extension ornamental horticulturist, University of Connecticut, Storrs, who spoke on "What the Agricultural Extension Service Can Do for Nurserymen." Professor Koths briefly discussed the history of the extension service, its place in the over-all educational scheme in the land-grant universities and the way in which county and state extension personnel work together to serve the needs of agriculture. He then discussed the role of the specialist in the extension service, illustrating many of the methods available to the specialist with examples and giving a clear picture of the help that can be made available to nurserymen from the extension service. Discussion followed.

Tour Three Nurseries

After lunch at Lippitt Hall cafeteria, a tour of three nurseries was conducted. The group assembled at the Stewart Nursery Co., Wakefield, in an unusual naturalized sales area. Featured at this stop was a container-growing venture operated by Robert Stewart, Jr., as part of the overall wholesale-retail establishment.

The group then drove to the Slocum production area of Bald Hill Nurseries, Inc., Pontiac, where Robert E. Lee, work unit conservationist, United States Department of Agriculture soil conservation service, described a contour planting project at that nursery, the first project of its kind in a nursery in this state. After this, a demonstration of a planting machine was given by the Savella brothers, of Bald Hill Nurseries. This demonstration attracted wide interest, and considerable discussion followed.

The last stop of the afternoon tour was Forest Hills Nursery, where the group saw a large retail nursery-landscape establishment with extensive display grounds and gardens. At this stop, a social hour ended the day. This feature was sponsored by Bald Hill Nurseries, Inc.; Forest Hills Nurseries, Inc.; Cranston, and Greenwood Nurseries, Inc., and Warwick Nurseries, Inc., Edgewood.

NEW BULLETINS

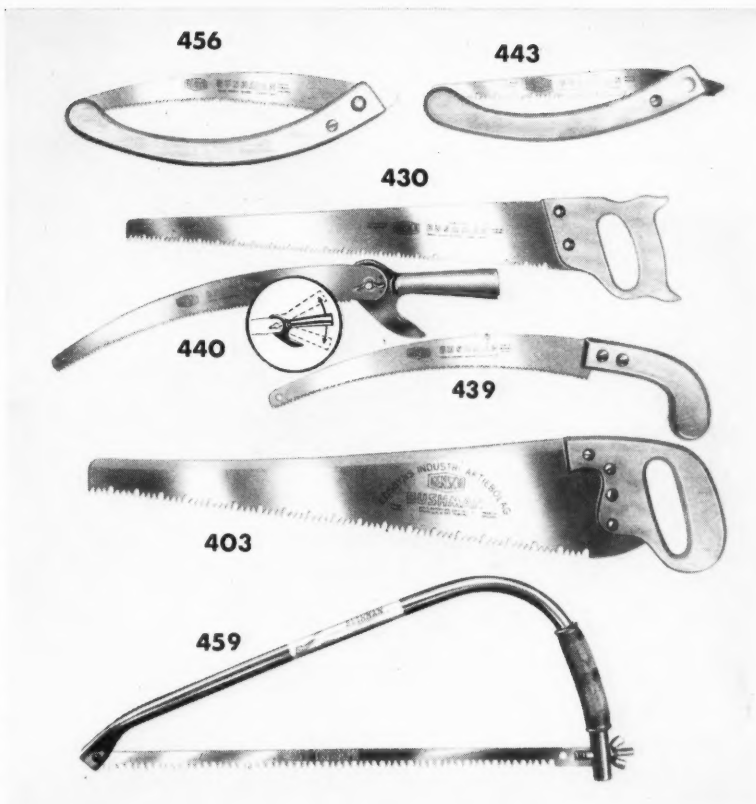
ILLINOIS TREE DISEASES

Recently issued in its second printing with alterations, circular 46 of the Illinois Natural History Survey, Urbana, Ill., is "Illinois Trees: Their Diseases," by Dr. J. Cedric Carter, head of the division of applied botany and plant pathology. This well-illustrated 100-page book first discusses tree diseases as to causes, types, diagnosis and therapy, in the first 38 pages, while the latter portion of the book is devoted to descriptions of widespread or destructive diseases in the state and their control of 22 genera of trees. In its first printing this publication was found extremely useful by nurserymen and arborists of the state.

SOIL IMPROVEMENT TESTS

Comparative results of adding peat and manure, peat and sewage sludge and sewage sludge and wood chips to nursery soils that had been depleted by constant crop production are reported in circular 219 of the Connecticut agricultural experiment station, New Haven, under the title Improving Nursery Soil by Addition of Organic Matter. The author, Herbert A. Lunt, started the tests before his retirement from the station staff in 1955, to investigate the economies of using cheaper waste products to improve soil.

It was concluded by the author that the choice of organic matter can reasonably be governed more by cost than by any other consideration, as there was little difference in the measurable improvement in properties obtained with the materials used. The study showed that the application of organic matter can result in significantly improved growth of nursery stock. One of the



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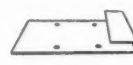
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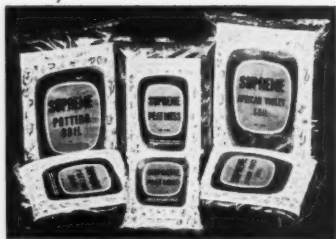


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tests indicated that sludge was more effective than manure in promoting growth of taxus. However, it is brought out that it is essential that the soil pH be high enough to inactivate toxic metals that are found in the sludge.

EAST MALLING REPORT

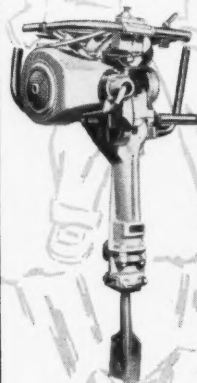
The recently released report for 1960 of the East Malling research station, Maidstone, Kent, England, follows previous arrangements in being divided into four parts, the first of which reviews the year's work on the experimental farm, including the glasshouses and nursery. The second part consists of reviews of the progress of research in each department of the station, together with lists of the papers published during the year.

The third part, consisting of research reports, is by far the largest, describing studies on high budding of apple varieties to avoid collar rot, stimulation of fruit development in frost-damaged pears, tolerance of commercial strawberry varieties to verticillium wilt, performance of pear scions on apple rootstocks, graft incompatibility in plums and 17 other investigations.

Bulletins specially written for growers form part IV of the report, including a description of control methods for botrytis rot (gray mold) of strawberries and an evaluation of various rootstocks for plums. The report has a useful index and is well illustrated with photographs and diagrams. It can be obtained at \$2.50 from the secretary, East Malling research station, Maidstone, Kent, England.

FOREST STATION REPORT

The annual report of the Lake States forest experiment station of the forest service of the United States Department of Agriculture for 1960, an attractive illustrated 68-page pamphlet, 8½x11 inches, discusses some of the major activities of the station during the year and reviews the research on important projects. In recent years the station's trend has been toward more basic research, as a thorough understanding of insect life and habits may provide clues to more efficient methods of control, while knowledge of the chemical and physical changes occurring in trees as they grow leads to better wood quality and an increase in productive capacity of forest lands. The report lists the year's publications of the station, which can be obtained from the Lake States forest experiment station, St.

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WALNUT ANTHRACNOSE

Frederick H. Berry describes a 5-year study on walnut anthracnose—the nature of the causal organism, its host relations and its control—in bulletin A-113, published by and available from the University of Maryland agricultural experiment station, College Park, Md., entitled Etiology and Control of Walnut Anthracnose.

In these experiments, conducted in orchard plantings of eastern black walnut varieties in Maryland and Virginia, four applications yearly of zineb gave consistent and effective control of the fungus over the 5-year period, checking the premature defoliation and shriveling of nut kernels caused by anthracnose. Several other fungicides tested over a shorter period also appeared to give satisfactory control. Photographs and tabular material accompany the text of the 22-page booklet.

PENNSYLVANIA TREES

"Some Shade and Flowering Trees for Pennsylvania Landscapes," by Joseph L. Hayden, just issued by Pennsylvania State College as special circular 57, listing the trees' outstanding landscape characteristics in tabular form for ready reference and including several pages of other information, is a most attractive pamphlet of 16 pages, 11x8½ inches.

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Those engaged in orchard operations and possibly some arborists as well will be interested in an illustrated 12-page bulletin, "Small Power Tools for Pruning Citrus," circular 211 of the University of Florida, Gainesville. It presents evidence of the remarkable mechanical advances that are being made in this direction.

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Reported by Tom Eden

A suggestion for moving leggy, irregular plants at a healthy profit was offered at the recent convention of the Alabama Nurserymen's Association by Dr. Tok Furuta, associate professor of horticulture, Auburn University, Auburn, Ala. Presented on the final day of the convention, which was reported in the July 15 issue of the American Nurseryman, Dr. Furuta's talk was titled "Tub Your Unsalable Plants" and referred to plants that cannot be sold as originally intended. These, he said, can be placed in attractive containers, shaped if necessary and sold at a good profit.

Through the history of mankind, plants have been grown in containers for decorative purposes. Growing plants in containers in the landscape fill a definite need, enabling a designer to combine hard and soft surfaces to complete an outdoor picture. It may make possible the use of plants in situations where otherwise they would not grow. It also makes possible the frequent moving of plants to fit a mood or a change in season.

The American public has become highly interested in bonsai plants, without thoroughly understanding the problems and work involved, indicated Dr. Furuta. He doubted if the average American will spend the time and effort necessary to create and maintain a true bonsai plant. But he felt that people respond well to the growing and use of plants in containers. The requirements for establishing and keeping plants in containers healthy and attractive are known, and they are neither difficult nor expensive. The wholesale nurseryman could take many items that otherwise might not be sold and show the retail nursery operator how to sell them as tubbed specimens. Modifications of present practices, containers, etc., may be necessary, but financially it would be worth the effort, according to Dr. Furuta. The garden centers of the nation could handle more tubbed specimens.

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ers of all sorts; the ingredients for a good soil mixture, and the fertilizers, watering devices, etc., needed to maintain the plants in the containers.

Successful Test

Dr. Furuta told of visiting a garden center where among the plants offered was a group of "leggy," poorly shaped 3 to 4-foot Burford holly plants. They were not moving at about \$3 each and were slated to be planted out in a field. Dr. Furuta suggested an experiment that was accepted. One of the plants was tubbed in a redwood container of the proper size, and the plant was pruned into an exotic shape that took advantage of the "leggy" appearance. When the plant was prominently displayed at the entrance to the garden center the first customer who saw it purchased it for \$15, giving a good return for a \$3 plant, a \$5 tub and a little effort.

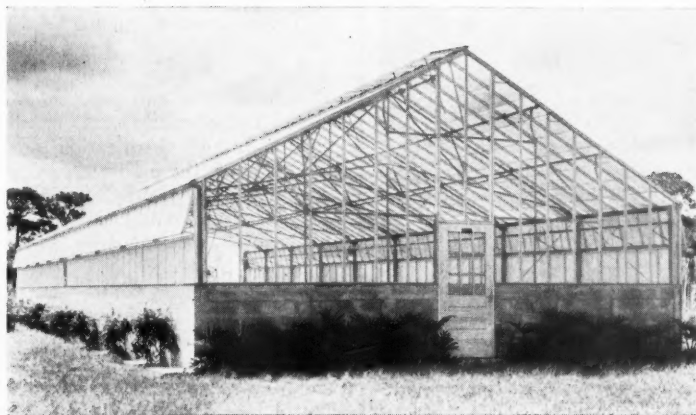
Price of plants displayed in containers apparently is not a basic factor affecting the sale. Generally the salesman should avoid setting too low a price, thus lessening the value of the creation. Preparing plants in containers for sale is not difficult and can be done by the wholesale grower or by the garden center operator, Dr. Furuta brought out.

The container and the plant must harmonize, and both must fit into the particular landscape location. A wide variety of containers is available for use, including wooden, ceramic, clay, plastic and metal products. Neutral colors are best, as bright colors are difficult to use effectively. Generally, the container should not be too ornate. And it is extremely important that the container be provided with adequate drainage holes.

The choice of plants is wide. Generally speaking, however, plants of the more refined type should be used, since they are usually examined closely. Vines may be used, as well as upright plants, although the former will require a frame on which to be properly trained. Deciduous plants are as useful as evergreens. The form to which the plants are trained or pruned can be left to the creativity of the designer. Besides such basic forms as oval, circular, pyramidal and columnar, exotic forms may be developed.

Soil mixtures should be well drained but capable of retaining sufficient moisture and nutrients. The soil should be well aerated and contain a high percentage of organic matter. In potting, one should place

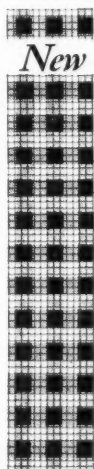
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clay pot fragments over the drainage hole, with gravel in the bottom of the container, to insure that any holes do not become plugged. It is best to pot the plants long enough in advance of sale to insure plant establishment in the container. Fewer replacement problems will then occur.

Each purchaser should be informed of the care of the plants, especially watering and fertilizing them. Liquid fertilization once a month while the plants are in active growth is safer than dry feeding by the amateur. Water should be applied when the soil dries out, then be given in excess to saturate the entire soil mass. The unneeded water will drain out, flushing out some of the soluble salts that might accumulate and cause trouble. Special winter protection generally will not be needed for hardy plants. Dr. Furuta concluded by showing several slides that demonstrated how easy it is for the nurseryman to prepare and sell tubbed specimen plants of various kinds.

NEW PEARS RELEASED

Small quantities of budwood of Magness and Moonglow, two new pear varieties developed for central and eastern states, and of Dawn, developed for western states, have been released by the United States Department of Agriculture for increase by nurserymen.

Because these pears have not been tested regionally, the scientists who developed them at the U. S. D. A. agricultural research center, Beltsville, Md., suggest that limited plantings be made until performance of the new fruits can be determined under local conditions. Based upon performance at Beltsville, descriptions of the new varieties are given by the research center staff as follows:

Magness, named for Dr. John R. Magness, former head of the U. S. D. A. fruit and nut research, is highly resistant to pear blight, high in fruit quality, sweet flavored, juicy and highly aromatic. The oval fruit has a strong, russet-colored skin that makes it somewhat resistant to insect punctures and decay. The flesh of Magness is softer than that of Bartlett. It is practically free of grit cells and is a good dessert pear. The fruit matures about one week later than Bartlett and ripens in about 10 days when stored at 70 degrees Fahrenheit.

The trees of Magness are vigorous and spreading. They produce a good blossom set. However, they produce

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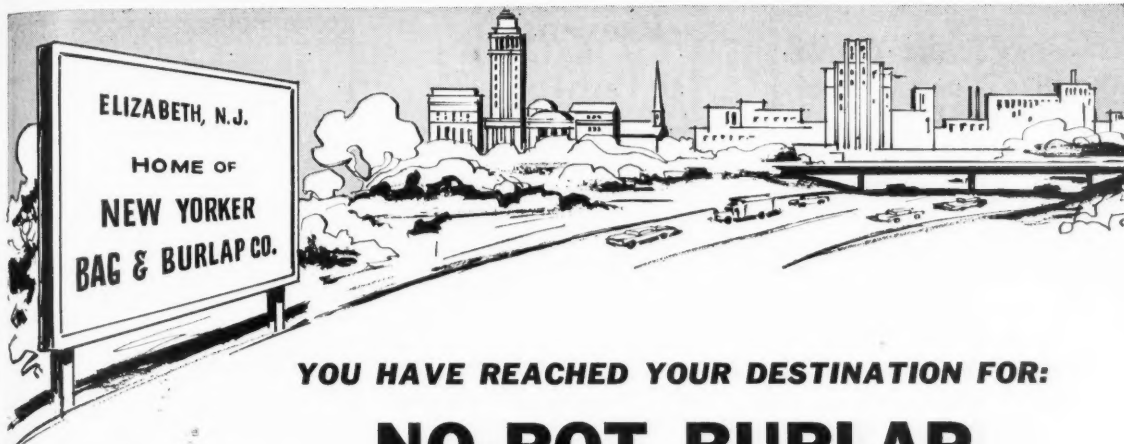
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no pollen, and other pear varieties are needed nearby to insure good pollination. The parent trees and the first propagations from them have thorns, but the scientists believe that this characteristic may decrease or disappear as repropagations are made.

Moonglow and Dawn closely resemble the Bartlett pear in shape and in other respects. The fruit of both matures about two weeks earlier than Bartlett pears; the skin is smooth, and the pears are of good quality, aromatic and slightly acid.

Moonglow is larger than Dawn, ripens in 15 to 18 days after packing, is moderately juicy and quite free of grit cells. It is well suited for both canning and fresh market sales. Highly resistant to pear blight, it is, like Magness, suitable for planting in the east and midwest where it is now impossible to grow other high-quality pears. Moonglow was named for Herbert H. Moon, a U. S. D. A. horticulturist now retired.

Dawn gets its name from its early maturity. It is small and juicy, has a spicy flavor and ripens in 12 to 14 days after harvest. A good canning pear, it is, however, only slightly resistant to blight and should be planted in areas where the disease is not serious.



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Prevention Or Control for Insect Pests?

Reported by Tom Eden

The first step in a practical program of insect control is accurate identification of the pest involved, according to Walter Grimes, extension entomologist, Auburn University, Ala., who discussed this topic at the recent Huntsville convention of the Alabama Nurserymen's Association. (A report of the convention appeared in the July 15 issue of the American Nurseryman.)

Mr. Grimes urged the nurserymen to contact the extension service at Auburn University or its field representatives before they apply any insecticide to make sure the insect causing the damage is correctly identified.

Prevention or Control?

A practical insect control program implies the control of pests when they are present in sufficient numbers to cause economic damage. If a nursery is faced with the same insect problems year after year, a preventive program would probably be more effective than a control program. If problems occur only occasionally, then certainly a control program would be the better choice.

Systemic insecticides offer considerable promise to the nurserymen in the control of many insects on ornamentals. This is particularly true of those that can be used as a soil drench or as a granular material applied to the soil where flowering plants such as roses and chrysanthemums are being grown.

Such chemicals eliminate the necessity for applying a spray or dust directly on the flowering parts of the plants, yet they give effective control of insects. One other factor in favor of systemics is the long residual effect that most of them have. Thimet, phorate and Systox are examples of systemics that have proved effective in the control of insects on ornamentals.

Aphis and thrips are generally present in the nursery, especially on chrysanthemums and roses. A substantial part of the damage these pests cause is done before their presence is noted. This is particularly true with thrips, and a preventive program could be used effectively in this case.

However, many insecticides other

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than systemics are effective in aphids and thrip control—malathion and parathion at the rate of one quart of 57 per cent emulsifiable concentrate or one pint of 25 per cent parathion in 100 gallons of water will give effective control of the insects.

Borer Control

Many of the borers that attack ornamentals must be controlled through a preventive program, because once they have entered a plant it is almost impossible to control them with an insecticide.

A good preventive program for dogwood borer, a frequent nursery pest, is to spray the trunks and branches of trees with four pounds of 50 per cent wettable DDT plus one pound of 25 per cent wettable lindane to 100 gallons of water at 3 or 4-week intervals throughout the spring and summer months. The best control of most borers is to keep plants in a thrifty growing condition and avoid mechanical injury to the bark, through which borers may find easy access.

Photinia and some other ornamental plants are often victims of the Oriental fruit moth. The larvae of this pest, which are small, pinkish worms, bore into the young tips of plants. This causes the tips to die back and thus reduce the vigor and growth of plants.

This insect passes the winter in the larval stage and the worms are ready to go to work as soon as the weather becomes warm. They may be controlled with a spray of two pounds of 50 per cent DDT wettable powder in 100 gallons of water applied at the first sign of the grayish brown moths or at the first sign of worm damage.

For scale pests one may use an oil spray or malathion, parathion or

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Systox; these are good for the crawler stages. It is best to use a preventive program where azaleas and camellias are being grown.

Spider mites cause a yellowing of the leaves or, in severe infestations, complete defoliation. As controls for this pest, Mr. Grimes recommended Systox one pint of 25 per cent emulsifiable concentrate in 100 gallons of water, malathion two to four pints of 57 per cent emulsifiable concentrate in 100 gallons of water, or Trithion one-half to one and one-half pints of 42 per cent emulsifiable concentrate in 100 gallons of water.

In closing, the speaker noted that some type of power sprayer capable of obtaining 150 to 200 pounds' pressure is needed in most nursery work and that small hand-type sprayers or dusters should also be available for small jobs.

NEWPORT DRAWS CROWD

Newport, R. I., was again the site of the annual summer meeting of the New England Nurserymen's Association, August 17, with Boulevard Nurseries; Case Hoogendoorn, Nurseryman, and Rhode Island Nurseries serving as hosts.

A cool, clear, sunny day, made conditions ideal for the 450 in attendance to visit nurseries in the Newport area and also enjoy a trip through the Newport naval base and an inspection tour of new destroyers anchored there.

A New England clambake served in the late afternoon was enjoyed by members and guests from all of the New England states, plus others.

FLORIDA GROWERS' NOTES

Embodying short summaries of numerous items of research conducted recently in ornamental horticulture at the University of Florida, "Florida Growers' Notes" is a 17-page mimeographed letterhead-size publication, announced as published on an annual basis and available only to persons engaged commercially in some branch of ornamental horticulture. For convenience the publication is presented in divisions of work related to woody ornamentals, foliage plants, floriculture and turf grass. Persons desiring a copy may apply to James L. Taylor, department of ornamental horticulture, University of Florida, Gainesville, or, in Florida, to a county agent.

GRAND opening of the Naples Sod & Nursery firm, operated by William Hudak, was held August 8 at Naples, Fla.

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Communis Depressa					
Aurea	.39	.34	.29		
Communis Depressa, vase-shaped	.39	.34	.29		
Horizontalis Hughes Spreading	.39	.34	.29		
Horizontalis Plumosa	.39	.34	.29		
Procumbens	.39	.34	.29		
Sabina	.39	.34	.29		
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Pungens	.39	.34	.29		
EUONYMUS (2 or 3 per band)					
Fortunei Coloratus	\$0.29	\$0.24			
Fortunei Erectus					
Sarcocoe	.29	.24			
Fortunei Vegetus	.29	.24			
PACHYSANDRA (2 or 3 per band)					
Terminalis	.29	.24			
TAXUS					
Cuspidata Densiformis	.39	.34			
Cuspidata Hiti	.39	.34			
Cuspidata Intermedia					
Sebian	.39	.34			
Cuspidata Nana	.39	.34			
Cuspidata Nana Columnaris Hilli	.39	.34			
Cuspidata, Spreading	.39	.34			
Media Browni	.39	.34			
Media Hatfieldi	.39	.34			
Media Hicksi	.39	.34			
Media Tauntoni	.39	.34			
PINUS					
Nigra	.32	.27			
THUJA					
Occidentalis Nigra	.32	.27			
Occidentalis Pyramidalis	.32	.27			
Occidentalis Wareana	.32	.27			
Occidentalis Woodwardi	.32	.27			



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